Operating Manual

DVD

■ Viewvision DR+
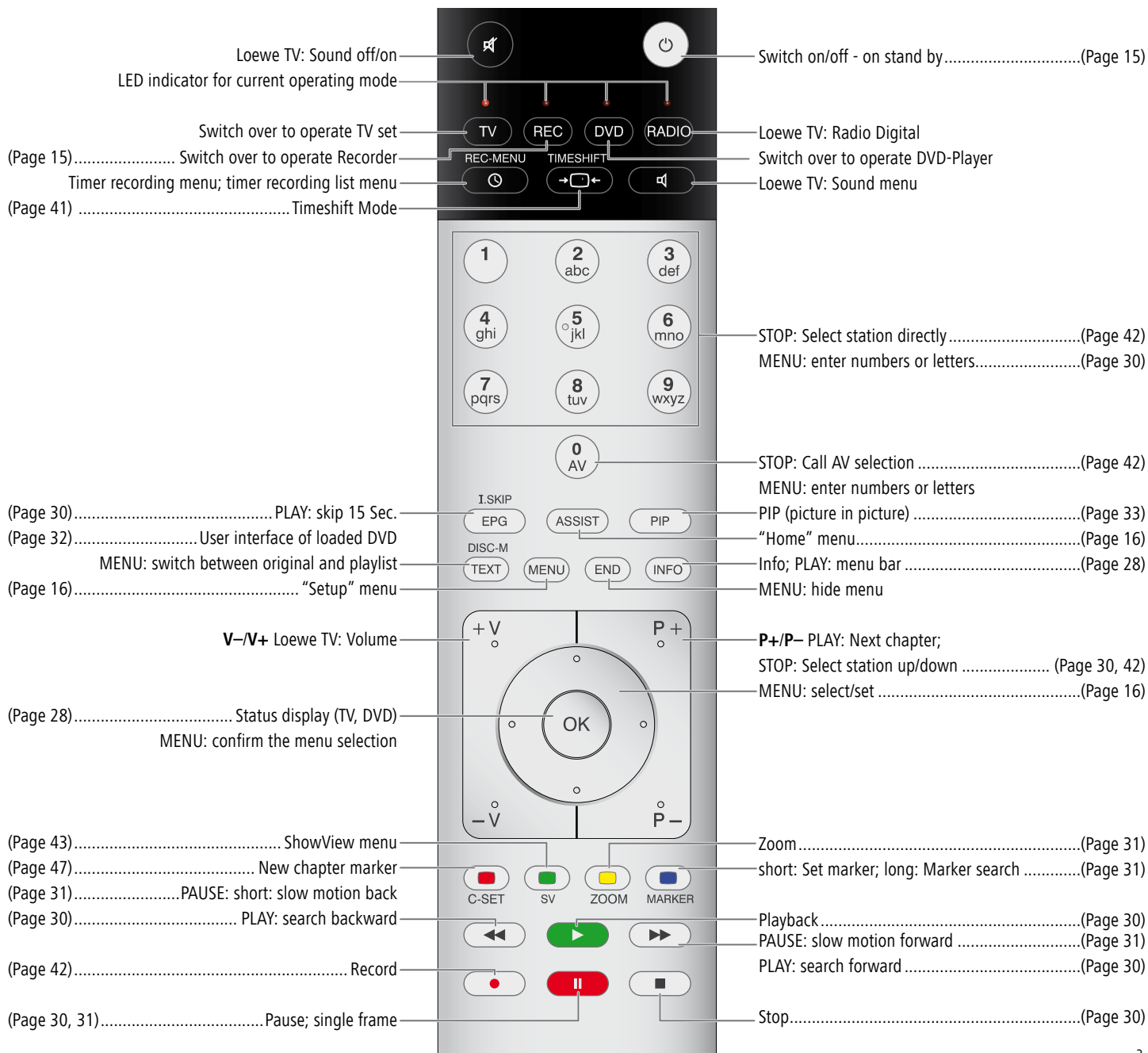
LOEWE.

Contents

Please fold out this page.

Remote control Assist – recorder operation

Loewe TV: Sound off/on

LED indicator for current operating mode

Switch over to operate TV set

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Loewe TV: Radio Digital

Switch over to operate DVD-Player

Loewe TV: Sound menu

REC-MENU   TIMESHIFT

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MENU: enter numbers or letters

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MENU: confirm the menu selection

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PAUSE: slow motion forward ....(Page 31)

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Stop...(Page 30)

Front Panel

Power button
Switch off in standby

Disc tray
open/close

Disc tray

Display

Front flap
(closed)

LOEWE.

HDD PR 01   20:42

DVD DOLBY dts VIDEOplus+ SHOWVIEW DivX HDMI

VIEW VISION DR+

RES
(screen resolution)

Record on hard disk

Record on DVD

Start recording

Beginning of chapter
/ previous chapter

Stop

Playback / Pause

Next chapter

LOEWE.

RES HDD DVD ● I◀◀ ■ ▶ I I ▶▶I ▲

AUDIO/PHOTO CARD READER

HDD PR 01   20:42

DVD DOLBY dts VIDEOplus+ SHOWVIEW DivX HDMI

VIEW VISION DR+

Memory card 2
SD / MMC / MS / MS-Pro / XD

Memory card 1
CF / MD

Front flap
(open)

DV IN

Input 4
S-Video IN

VIDEO IN 4 /
AUDIO IN 4 L/R

Rear Panel & Display

AERIAL
Aerial connection

HDMI OUT
connection of a TV with HDMI input

EURO AV 2 DECODER
SCART connection for an external source (Decoder, Set-Top-Box, Video Recorder etc.).

VIDEO IN 3/AUDIO IN 3 (L/R)
Connection for an external source (Audio System, TV/Monitor, VCR, Camcorder etc.) with video / audio inputs (Cinch).

VIDEO OUT / AUDIO OUT (L/R)
Connection for a TV with video / audio inputs (Cinch)

DIGITAL OUT
Digital, coaxial audio output

Mains cable

RF. OUT
Passes the aerial signal to the TV

S-VIDEO OUT
Connection for a TV with S-Video input.

EURO AV 1 AUDIO / VIDEO
SCART connection for TV set

VIDEO OUTPUT switch
Position **RGB**: EURO AV1 socket gives out the RGB signal and COMPONENT VIDEO OUT socket does not supply a signal
Position **COMPONENT**: COMPONENT VIDEO OUT socket gives out a Comp. signal and EURO AV1 socket does not supply a signal. * Please note the position of the switch here.

COMPONENT VIDEO OUT (Y Pb Pr)
Connection for a TV with component inputs (Cinch), *

OPTICAL
Digital, optical audio output

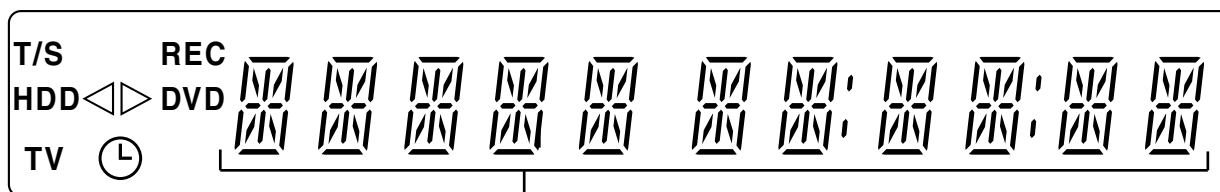**Caution: Do not touch the inner pins of connection sockets on the rear panel. Electrostatic discharge may cause permanent damage to the unit.**

T/S Timeshift mode active
REC recording mode active
HDD hard disk in operation
DVD DVD in operation
HDD ◄► DVD dubbing mode active
TV TV reception active
⊙ Timer recording active or programmed

Character specifications
time, total playing time, time elapsed, title, chapter / track number, station, status etc.

Welcome

Thank you

for choosing a Loewe product. We are happy to welcome you as our customer.
At Loewe we combine the highest standards of technology, design and user friendliness. This is equally true of TV, DVD, video, audio and accessories.
Neither technology nor design is an end in itself, but both are intended to provide our customers with the best possible audio and visual experience. Our design is not influenced by short-term, fashionable trends. You have, after all, purchased a high-quality piece of equipment which you do not want to get tired of looking at tomorrow or the day after.

Scope of delivery

- recorder Loewe ViewVision DR+
- Assist remote control with 2 batteries
- Euro AV cable (Scart cable)
- Digital audio coaxial cable
- Audio cinch cable
- Video cinch cable
- Antenna cable
- HDMI cable
- 1x DVD-RW disc
- this operating manual

You can control three units with the remote control, apart from this recorder also a Loewe TV set and a Loewe DVD player or a Loewe Audio System.

Trademark rights

Manufactured under license from Dolby Laboratories. Dolby, ProLogic and the double-D symbol are trademarks of Dolby Laboratories.
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
ShowView is a registered trademark of Gemstar Development Corporation.
The ShowView System is manufactured under license from Gemstar Development Corporation.
HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Set up

- Place the recorder on a firm, level base.
- Do not move the recorder during operation or just after switching it off.
- Do not place the recorder in the vicinity of sources of intense heat or in direct sunlight.
- When installing in a cabinet or enclosed shelf: Leave at least 2.5 cm free around the recorder to allow unhindered circulation of air and avoid build-up of heat. Do not cover up fan and openings on the rear.
- There can be interference to the images and sound of any nearby television, video recorder or radio. If this is the case, do not position the unit in the direct vicinity of a TV set, video recorder or radio, or switch the unit off after removing the disc.
- Position the recorder so that the infrared signal of the remote control can reach the display of the recorder unobstructed (or if this is not possible, see "Advantages of connection to a Loewe TV set", page 7).
- Do not place strong artificial light sources in front of the device. This may affect infrared reception.
- Incorrect voltages can damage the device. This device may only be connected to a power supply with the voltage and frequency specified on the rating plate, using the power cable provided.
- If there is an electrical storm, disconnect the antenna and mains plug. Power surges caused by lightning strikes can damage the unit through the antenna system or the mains.
- The antenna and mains should also be disconnected if the unit is to remain unsupervised for a long period of time.
- The mains plug must be easily accessible so that the unit can be disconnected at any time.
- Lay the cable in such a way that it cannot get damaged. The power cable should not be kinked or laid over sharp edges, not stood upon or exposed to chemicals - the latter also applies to the device as a whole. A mains cable with damaged insulation can cause electric shocks and is a fire hazard.
- Do not tug the cable when you remove the mains plug but hold the plug by the housing. The wires in the mains plug may be damaged and cause a short-circuit when you plug it back in.

You should also read and follow the safety advice on the following pages.

Welcome

Shipping the Unit

The original shipping box and packaging materials should be used to ship the unit. To give the unit the best possible protection, repack it as it was originally packed by the manufacturer.
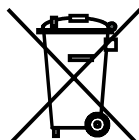
Disposal

Cardboard box and packaging

In line with national regulations regarding the disposal of packaging materials, we pay a fee to authorised recyclers who collect packaging from dealers. However, we recommend that you keep the original cardboard box and the rest of the packaging materials so that the unit can, if necessary, be transported in the safest possible conditions.

The unit

Important: The EU Directive 2002/96/EG governs the proper re-acceptance, handling and recycling of used electronic appliances. Old electronic appliances must therefore be disposed of separately. Never throw this set in the normal domestic waste. You can hand in your old set free of charge at identified collection points or at your dealer if you buy a similar new set. Other details about re-acceptance (also for non-EU countries) are available from your local administration.

Remote control batteries

The batteries provided contain no harmful materials such as cadmium, lead or mercury. Regulations concerning used batteries mean that batteries may no longer be thrown out with the household rubbish. You can dispose of used batteries free of charge at the collection points in commercial outlets. Your dealer will also have a collection point for used batteries.

Advantages of connection to a Loewe TV set

With **Digital Link** you can install the recorder for example in a closed rack or a cupboard without direct visual contact with the recorder. With the DVD remote control, you operate the recorder via the Loewe TV set. **Digital Link** must be switched on on the recorder (page 15).

If you use the HDMI connection, the TV set is automatically switched over to this input if your TV set supports this function.

If you want to make timer recordings from the TV satellite tuner, **Digital Link Plus** controls the recording. With **Digital Link Plus** the station data of the aerial and cable stations of the TV set are transferred to the recorder so that the same stations are saved in the same order in both devices. This enables timer recordings of aerial and cable stations to be made comfortably on the TV set with the EPG (Electronic Program Guide). The timer data are transferred to the recorder which then makes the timer recording independently of the TV set. For timer data for satellite stations, the TV set starts and stops the recorder and sets it to the Euro AV 1 input. When play is started, this is shown immediately on the TV set regardless of which TV station you are currently watching (if the TV is switched off, it will be switched back on automatically first).

About the internal hard disk

The internal hard disk (HDD) is very sensitive. Operate the recorder according to the following regulations to avoid HDD errors.

Important recordings should be saved on DVDs to avoid losing data (page 54).

Do not move the recorder immediately after switching it off. To move the recorder, proceed as follows:

1. Wait at least two minutes after the message POWER OFF.

2. Pull out the mains plug.

3. Move the recorder.

Data on the HDD may be lost if the power fails during recorder operation.

The HDD is very sensitive. Improper handling or an unsuitable environment could damage the HDD after a few years in operation.

Sudden stopping during playing and visible mosaic effects in the picture are an indication of this. There may be no advance warning signs for an HDD defect.

Recordings cannot be played if the HDD is defective. The HDD must be replaced in this case.

For your safety

For your own safety and to avoid unnecessary damage to your unit, please read and follow the safety advice below:

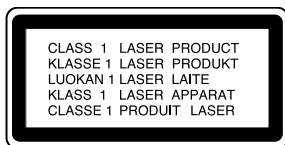## Use for the intended purpose and ambient conditions

This recorder is intended exclusively for the reception, recording and playing of video and audio signals and is designed for the home and office and may not be operated in rooms with a high **humidity** (e.g. bathroom, sauna) or high **concentration of dust** (e.g. workshops).

The terms of the warranty only cover normal use of the recorder.

If the device is used outdoors, make sure that it is protected against **moisture** (rain, drips and splashes or dew). High humidity and dust concentrations lead to leak currents in the device which may lead to electric shocks or fires.

If you have moved the device out of the **cold** into a warm environment, leave it switched off for about an hour to avoid formation of **condensation**.

Always switch off your system (ViewVision DR+, TV set and any other audio components which may be connected) before connecting or disconnecting other devices or loudspeakers.

```
CLASS 1  LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1  LASER APPARAT
CLASSE 1 PRODUIT LASER
```

Do not open up the housing, or you could be directly exposed to the laser beam. The laser beam will be visible if the unit is open.

DO NOT LOOK INTO THE LASER BEAM.

Protect your recorder from:
- liquids and damp
- shock and mechanical stress
- magnetic and electrical fields
- cold, heat, direct sunlight and extreme fluctuations in temperature
- dust
- anything which obstructs ventilation
- manual interference with the unit's interior

PLEASE NOTE: TO AVOID RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER (OR THE REAR OF THE UNIT). THERE ARE NO PARTS INSIDE THE UNIT THAT CAN BE REPAIRED BY THE USER. REPAIRS SHOULD ONLY BE CARRIED OUT BY A LOEWE DEALER.

Only use **original accessories** such as Loewe installation systems if possible.

Supervision

Do not allow **children** to use the recorder/TV set unsupervised. Do not allow children to play in the immediate vicinity of the recorder/TV set. They could knock, push or pull the equipment over and cause injury.

Cleaning

Only clean your recorder with a slightly damp, soft, clean cloth (without any aggressive cleaning agents).
If the recorder does not read a disc correctly, the reading unit in the device may be soiled. Use a commercially available cleaning disc.
Keep the disc drawer closed to prevent dust from the drawer getting onto the lens.

About this user guide

The information in this guide refers to the Loewe product Viewvision DR+ and Viewvision DR+ Secam - (version for France).
Unless stated otherwise, the instructions refer to the operating elements on the Assist remote control.

The explanations for DVDs in this guide refer to the DVDs recorded with this recorder. They do not apply for DVDs recorded on other recorders and played on this recorder.

Paragraphs beginning with the ➠ symbol indicate important hints, tips or conditions for perfect operation.

Terms which you will find in the menu or printed on the recorder are printed in **bold** type.

In the functional descriptions, the necessary operating elements are arranged to the left of the text which contains the handling instructions.

Essential Information

Rewritable discs

DVD-RW (Digital Versatile Disc - ReWritable)

DVD-RW discs can be formatted for recording in the VR mode or in the video mode. These discs can be rewritten several times. Recordings can be deleted and the disc can then be rewritten.

VR mode Recordings can be extensively edited.

They can only be played on VR mode compatible players (after finalisation).

Video mode Limited editing possible.

Play on normal DVD players (after finalisation).

DVD-R (Digital Versatile Disc - Recordable)

These discs can be recorded once. A DVD-R disc cannot be rewritten or edited after finalisation. DVD-R discs can only be formatted for recording in video mode. Play on normal DVD players (after finalisation). Limited editing possible.

DVD+RW (Digital Versatile Disc + ReWritable)

These discs can be rewritten several times. Recordings can be deleted and the disc can then be rewritten. Play only on DVD+RW-compatible players (automatic finalisation). Edited contents can only be played after finalisation on DVD+RW-compatible players. Titles/chapters of recordings can be edited.

DVD+R (Digital Versatile Disc + Recordable)

These discs can be recorded once. A DVD+R disc cannot be rewritten or edited after finalisation. Play only on DVD+R-compatible players (after finalisation). Edited contents can only be played after finalisation on DVD+R-compatible players. Title/chapters can be edited conditionally.

➠ This recorder cannot write to CD-R or CD-RW discs.

➠ This recorder cannot write data discs (e.g. no MP3 or JPEG files).

➠ The displayed recording time is not exact because the recorder uses a variable bit rate video compression. This means that the exact recording time depends on the contents being recorded.

➠ When recording a television broadcast the remaining recording time may be shorter if the reception is poor or the picture contains interference.

➠ If you record only still pictures or audio, the recording time may be longer.

➠ The displayed recording time and remaining time may not always add up to the total length of the disc.

➠ The available recording time may be shorter following intensive editing of the disc.

➠ If you use a DVD-R disc you can continue recording until the disc is full or until you finalize it. Before you start recording check how much recording time is available on the disc.

➠ If you use a DVD-RW disc in video mode, the available recording time is extended again when you delete the last title recorded on the disc.

➠ The **Delete Parts** function (page 49) only hides the title but does not delete it from the disc and does not extend the recording time (except for the last recorded title on a DVD-RW disc in video mode).

➠ Overwrite recording is only possible on DVD+RW discs (Page 56).

Essential Information

Recording TV-Audio Channels

This recorder can also record NICAM audio. If the NICAM setting (page 20) is set to "Auto", NICAM audio will be recorded in the case of a NICAM transmission.

Restrictions on Video Recording

- You cannot record movie material with copy protection with this recorder. If a copy protection is encountered during recording, the recording stops or is interrupted automatically and a message is displayed on the screen.
- A video that can only be copied once can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).
- NTSC format signals from analog or DV inputs cannot be recorded correctly with this recorder.
- SECAM format video signals (from an integrated TV tuner or from analog inputs) are recorded in PAL format.

CPRM

CPRM is a copy protection system (with scramble system) that only allows the recording of "copy once" broadcasts. CPRM is the abbreviation for "Content Protection for Recordable Media".
This recorder is CPRM compatible. You can therefore record copy-once broadcasts but cannot make copies of these recordings. CPRM recordings are only possible with VR mode formatted DVD-RW discs and can only be played on players with CPRM compatibility.

Copyright

- The recording equipment should only be used for lawful copying. You should find out what constitutes lawful copying in the country in which you are making a copy. Copying of copyrighted material e.g. films or music is only lawful if permitted by a legal exception or consented to by the rights owner.
- The product contains copyright protection technology through certain US patents and other intellectual property rights and is the property of the Macrovision Corporation and other companies. Use of this protection technology must be authorized by the Macrovision Corporation. It is only intended for private or other limited use unless otherwise authorized by the Macrovision Corporation. Reverse engineering and disassembly are prohibited.

Playable Discs

Video-DVD (8 cm- / 12 cm disc)

Video-CD (VCD, SVCD, 8 cm- / 12 cm disc)

Audio-CD
(8 cm- / 12 cm disc)

CD-R/RW

DVD-R/DVD-RW discs, DVD+R/DVD+RW discs, CDR/CD-RW discs with audio titles, DivX, *MP3/WMA or JPEG files, VCD/SVCD and Kodak Picture-CDs (JPEG) can also be played on this unit.
* including MP3 discs with ID3-Tag.

➡ DVD-R/RW, DVD+R/RW and CD-R/RW discs written to using a PC or a DVD or CD recorder cannot be played if the disc is damaged or dirty or if there is condensation on the recorder's lens.

➡ If you record a disc using a PC, even if it is in a compatible format, the disc may not play depending on the settings of the application software used to create the disc. (Further information can be obtained from the software provider).

➡ Depending on the recording unit or the CD-R/RW (or DVD±R/±RW) disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played with this unit.

➡ Do not attach any labels to either side (the labeled side or the written side) of a disc.

➡ Do not use any irregularly shaped CDs (e.g. heart-shaped or octagonal). If you use these discs malfunctions may occur.

➡ Fingerprints and scratches on the disc can affect playback and/or recording. Take proper care of your discs.

Essential Information

Regional code of the Recorder and DVDs

**2** This Recorder can only play Region "2" or "all" coded DVDs.

The region code on the label of some DVDs shows which type of DVD recorder can play those discs. If you play other discs the error message "Incorrect region code. Playback not possible." will be displayed on the TV screen.
Some discs may not have the label with the region code even though they cannot be played in all regions.

Notes on Discs

Handling Discs
Do not touch the prerecorded side of the disc. Hold the disc at the edges so as not to touch the surface with your fingers. Do not stick paper or tape to either side of the disc.
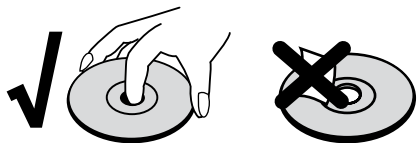

Storing Discs
After playing, store the disc in its case. Do not expose the disc to direct sunlight or a source of heat and never leave it in a parked car exposed to direct sunlight as there may be a considerable increase in temperature inside the car.

Cleaning Discs
Fingerprints and dust on the disc can affect the picture and sound quality. Clean the disc before playing it with a clean cloth. Wipe the disc from the center outwards.
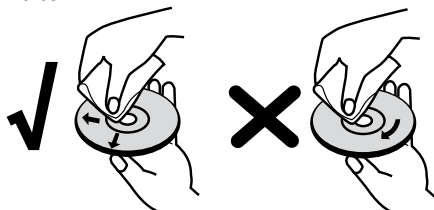
Do not use any strong solvents such as alcohol, benzine, thinner, commercially available cleaners or anti-static sprays intended for vinyl records.

Disc-related Terms

Title
A title is the main movie content or the music album. You have easy access by the title number.

Chapter (DVD)
Chapters are movie sequences or a piece of music which are parts of a title. You have easy access by the assigned chapter number.

Track (only Video-CD or Audio-CD)
Movie sequences or a piece of music on a Video-CD or an Audio-CD. You have easy access by the assigned track number.

Scene
On a Video-CD with PBC functions (Playback Control) the moving pictures and freeze frames are divided into sections called "scenes". You have easy access by the assigned scene number.

Symbols

The ⊘ symbol on the screen
During operation, ⊘ may appear on the screen. This symbol means that the desired function is not available at the moment.

Disc symbols in the operating instructions
If part of the operating instructions contains one of the symbols listed below, the section is only applicable to the disc shown on the symbol.
Many functions of this recorder are dependent on the selected recording quality. One or more of the symbols (DVD, Video, +RW, MP3) are displayed for each function described in the manual so that you can immediately see whether the disc supports this function.

HDD	Title on HDD
DVD ALL	All DVDs listed below
-RW Video	DVD-RW Disc with video mode
-RW VR	DVD-RW Disc with VR mode
-R	DVD-R disc
+R	DVD+R disc
+RW	DVD+RW disc
DVD-V	DVD-Video disc
VCD	Video-CD
CD	Audio-CD
DivX	DivX/Xvid files
MP3	MP3 files
WMA	WMA files
JPEG	JPEG files

Initial Installation

Initial Remote Control Setup

To insert or change the batteries, press on the imprinted arrow. Sldie off and remove the battery compartment cover. Insert alkaline-manganese LR 03 (AAA) type batteries and make sure the + and − poles are aligned correctly. Then, replace the cover.

Resetting the DVD Recorder

If any of the following problems occur.

- The unit is plugged in but will not turn on or off.
- The display panel does not work.
- The Recorder is not functioning normally.

the Recorder can be reset in the following way:

Hold down the button on the device for at least five seconds. The device switches off or pull out the power cable, wait at least 20 seconds and reconnect the cable.

Press the button again to switch the device back on.

Switching over to Progressive Scan

With the "Progressive Scan" mode you get the best possible picture quality without flicker the "Component Video" mode (**VIDEO OUTPUT** switch on the back of the recorder in position **COMPONENT** page 13) in display units which support this operating mode.

➠ Your recorder must be switched on.

RES   Button **on the recorder**.

On: **576 P** appears briefly in the recorder display.

Off: **576 I** appears briefly in the recorder display.

Connections - General

➠ Depending on your television set and the other units you want to connect, there are several ways of connecting your recorder to your TV set. Only use the connection methods described below.

➠ Refer as necessary to the manuals for your television, recorder, stereo system and other units in order to make the best possible connections.

➠ The recorder must be connected directly to the TV set. Use the "connection wizard" for this in Loewe TV sets.

➠ Do not connect the Recorder **AUDIO OUT** socket to the audio system Phono In socket.

Connecting to the Aerial

Remove the existing aerial cable plug (**R**) (for analog, terrestrial or cable TV) from the TV and plug it into the aerial socket on the back of the recorder (**AERIAL** socket). Then plug one end of the aerial cable provided into the TV socket on the recorder (**RF-OUT**) and the other end into the aerial socket on the TV.

Back of the television

Back of the recorder
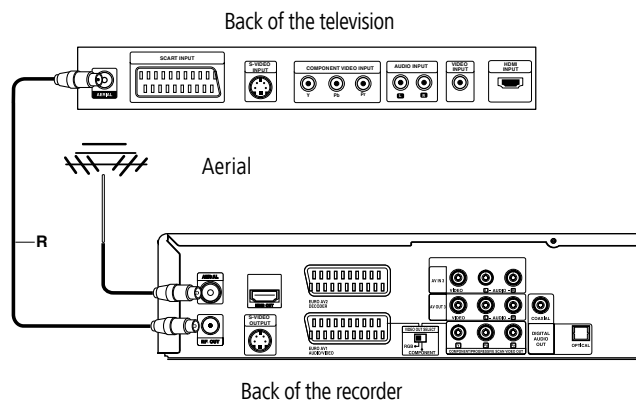
Initial Installation

Connecting to the Television

Make the following connections depending on the scope of functions of your existing equipment:

Back of the television

Antenna/
cable television
wall socket

Back of the recorder
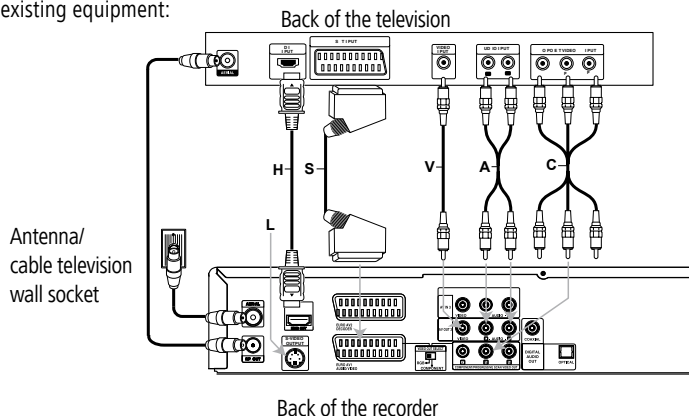
SCART connection
Connect the **EURO AV1** AUDIO/VIDEO scart socket of the recorders to the appropriate input socket on the TV with the scart cable (**S**). Move the **VIDEO OUTPUT** switch to position **RGB**.

HDMI connection
Connect the **HDMI OUT** socket of the recorder to the HDMI input socket on the TV set with the HDMI cable (**H**) provided (HDMI socket 1 in Loewe). Make the settings as described on page 29. The SCART connection is required additionally for recording from the TV set.

Video connection
Connect the **VIDEO OUT** socket of the DVD player to the video input socket on the TV set with the video cable (**V**).

S-Video connection
Connect the **S-VIDEO OUT** socket of the recorder to the S-Video input socket of the TV set with the S-Video cable (**L**).

Component Video connection
Connect the **COMPONENT VIDEO OUT** sockets on the recorder to the appropriate input sockets on the TV set with a Y Pb Pr cable (available from your dealer) (**C**). Move the **VIDEO OUTPUT** switch to position **COMPONENT**.

Audio connection (left/right)
Connect the left and right **AUDIO OUT** socket of the recorder to the left and right **AUDIO IN** sockets on the TV set with the audio cables (**A**).
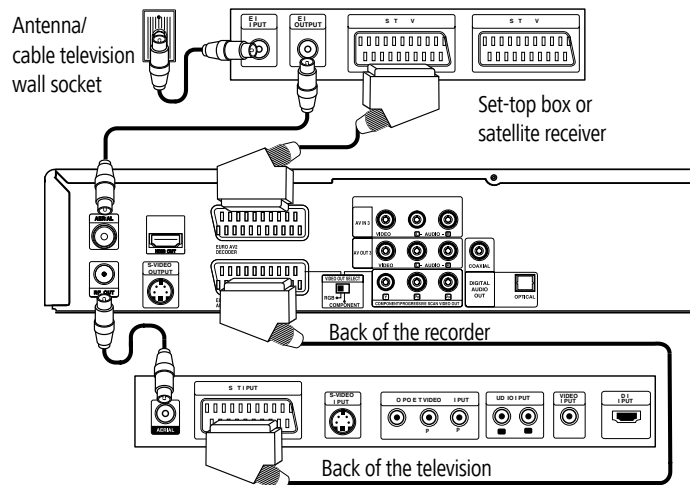
Digital Audio output
Connect the **DIGITAL-OUT** socket of the recorder to the **DIGITAL-IN** socket of the surround amplifier.

Connecting to a set-top box / Satellite Receiver

If you use a cable or satellite receiver with integrated decoder, connect it to your recorder and television set as described below. If you use a separate decoder box for your cable/satellite television, follow the instructions in the next section "Connecting to an External Decoder Box".

1. Connect the aerial cable as shown. This enables you to watch and record TV channels.

2. Connect the **EURO AV1** AUDIO/VIDEO connection to a EURO AV socket on your TV set with the Scart cable. This enables you to view discs.

3. Connect the **EURO AV2** DECODER connection to a EURO AV socket on your set-top box / your satellite receiver. This enables you to watch its TV channels.

➠ This recorder is equipped with a "Loop-Through" function. The function enables you to record a TV program from the integrated analog terrestrial TV tuner of this recorder while watching a satellite or set-top box channel. Do not connect the recorder "via" your video recorder, satellite receiver or set-top box.

Antenna/
cable television
wall socket

Set-top box or
satellite receiver

Back of the recorder

Back of the television

Initial Installation

Connecting to an External Decoder Box

If you use an external decoder box for your satellite or cable TV system, follow the connection procedure described below.

1. Connect your aerial socket in the wall to the aerial input socket on your set-top box / satellite receiver using an aerial cable.

2. Connect the decoder to the EURO AV DECODER socket on the set-top box /satellite receiver using a SCART cable. Further instructions can be found in the manual for your decoder box.

3. Connect the EURO AV2 socket on the DVD recorder to a **EURO AV 2** socket on your set-top box / satellite receiver using a SCART cable.

4. Connect the EURO AV1 socket on the DVD recorder to a **EURO AV 1** socket on your television using the SCART cable.

➡ Do not connect the Decoder-Box directly to the recorder but as shown in the figure below to the satellite/set-top box.

➡ Stations from the decoder (e.g. via Pay-TV services) can only be viewed when the recorder is switched off (standby mode).

➡ For timer recordings to work properly on this recorder, the satellite / set-top box must also be switched on during recording.

➡ With this configuration you cannot watch one television broadcast and record another at the same time.

Antenna/ cable television wall socket

Set-top box or satellite receiver

Decoder

Back of the recorder

Back of the television
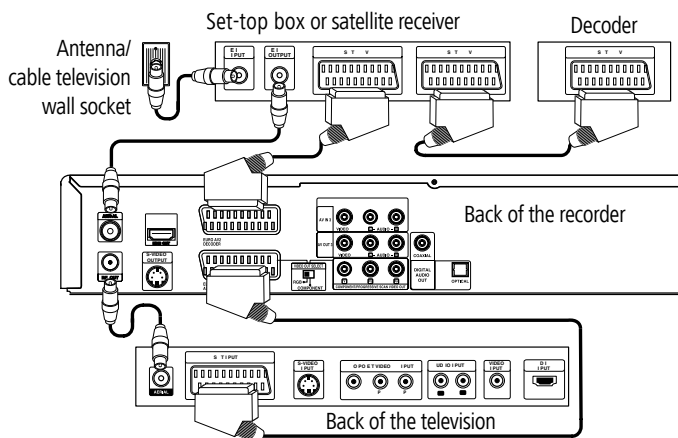
Connecting to an Amplifier

Connecting to an analog amplifier with analog 2-channel stereo or Dolby Pro Logic II / Pro Logic

Connect the left and right **AUDIO OUT** socket of the recorder to the left and right **AUDIO IN** sockets of the amplifier, receiver or stereo system with the audio cables (**A**).

Connecting to a digital amplifier with two-channel digital stereo (PCM) or to an audio/video receiver with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS)

1. Connect one of the **DIGITAL AUDIO OUT** sockets (OPTICAL **O** or COAXIAL **X**) of the recorder to the appropriate input socket on your amplifier. Use an appropriate digital audio cable (optical **O** or coaxial **X** - available from your dealer).

2. You must configure the digital output of the recorder (Page 22).

Back of the recorder

Amplifier (Receiver)
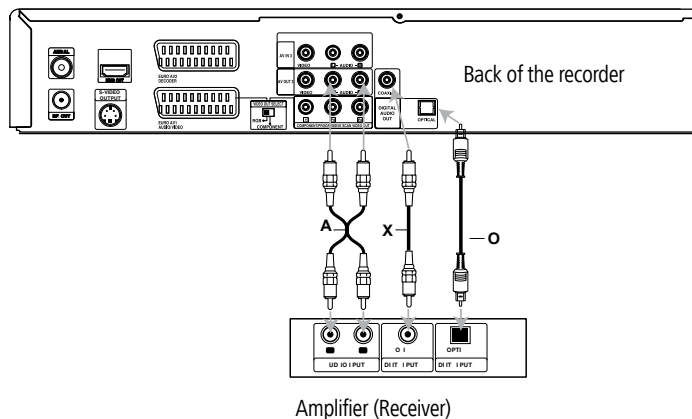
Digital multi-channel sound

A digital multi-channel connection offers the best sound quality. You will need a multi-channel audio/video receiver which supports one or more audio formats, e.g. MPEG 2, Dolby Digital and DTS. You will find information in the documentation enclosed with the receiver.

➡ Due to the DTS licensing agreement the digital output will be to DTS **DIGITAL-OUT** when a DTS audio stream is selected.

This recorder does <u>not</u> perform a (2-channel) decoding (downmix) of a DTS sound track internally. In order to enjoy DTS multi-channel surround sound, you have to connect this recorder to a DTS-compatible receiver via one of the recorder's digital audio outputs.

Initial Installation

⟶ If the audio format of the digital output does not correspond to the capabilities of your receiver, the receiver will emit a strong distorted sound or no sound at all.

5.1 Digital surround sound via the digital connection can only be obtained if your receiver is equipped with a digital multi-channel decoder.

You can obtain information about the audio format of the current DVD via the "Disc Info" menu (Page 28).

Connecting Audio/Video (A/V) Accessories

Connect the input sockets (**AV2**, **AV3** = AUDIO IN 3 / VIDEO IN 3 on the back of the device or **AV4** = input 4 on the front of the device (page 4)) of the recorder to the audio/video out sockets of the accessory components with the audio/video cables.

⟶ You can use either the **S-VIDEO IN** socket on the front panel or the **VIDEO IN** socket on the rear.

If you have connected a device to **AV2** and switched off its power supply, the Digital Link Plus function to the recorder is not possible.

Connector block for an accessory component (VCR, Camcorder, etc.)
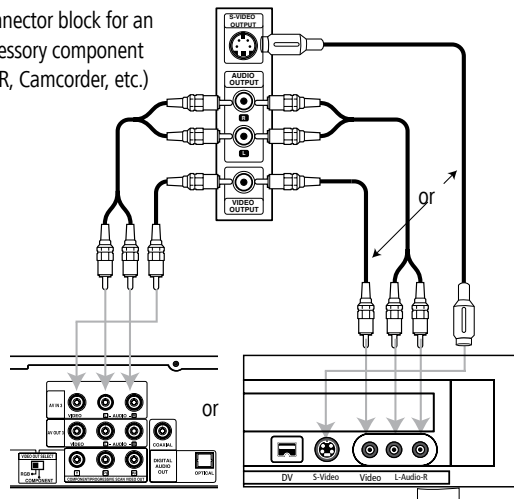
Back of the recorder   Front of the recorder

Connecting a digital camcorder

You can connect a digital camcorder (DV) or a digital DVD-R/RW recorder to the **DV IN** socket and transfer contents of DV tapes or DVDs digitally.
Use a DV cable (not included in delivery) to connect the **DV IN**-/**OUT** socket of your DV-camcorder/video deck to the **DV IN** socket on the front control panel of this recorder.

⟶ Only DV units can be connected to this socket (the source signal must be in the DV-25 format; see page 44). It is not compatible with digital satellite tuners or S-VHS video decks.

DV Digital Camcorder

Front of the recorder
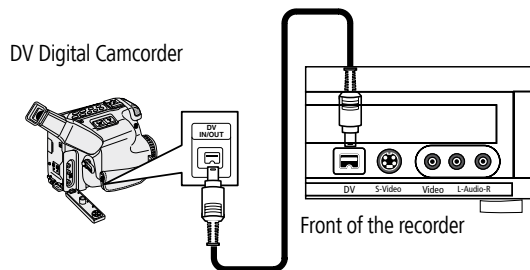
Activating Digital Link

With Digital Link, Loewe TV sets pass on the signals from the remote control through the Euro-AV connection on the recorder. Digital Link is useful when you want to put the recorder in a concealed place, e.g. in a closed rack.

⟶ Your recorder must be switched on.

Button **on the recorder** for > 3 s

Digital Link on: **LINK** appears in the recorder display.

Digital Link off: **FRONT** appears in the recorder display.

Basic Settings

REC   Set the remote control for recorder operation.

⏻   Push the On/Off button on the DVD recorder or

⏻   the On/Off switch on the remote control.

Initial Installation

Main menu

All media files can be called from the main menu for playing and recording with the recorder.
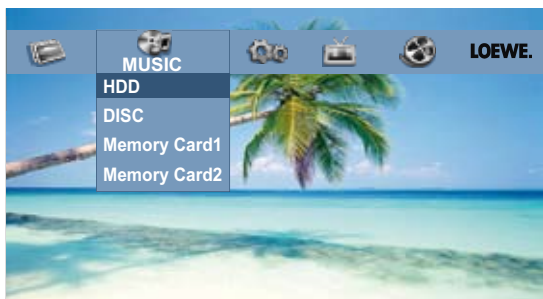
(ASSIST) Call main menu.

    ◄ ▶ Select desired operating mode.

    ▲ ▼ Call options.

    Confirm selection with **OK**.

(ASSIST) Exit main menu.

	MUSIC			LOEWE.
	HDD			
	DISC			
	Memory Card1			
	Memory Card2			

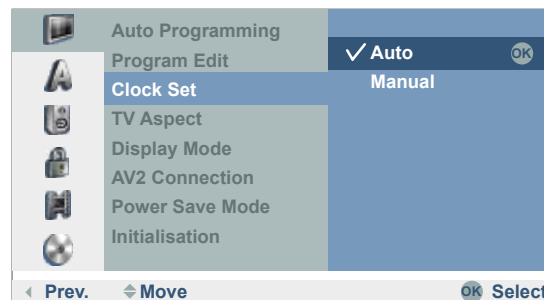|	
TV	HDD: Live TV picture on – record on HDD.
	DVD: Live TV picture on – record on DVD.
MOVIE	HDD: Display the **Title List** menu of the HDD (page 46).
	HDD DivX: Display the **Movie List** menu of the HDD (page 34).
	Disc: a.) Display of **Title List** of a rewritable disc (page 46).
	b.) Display of the **Movie List** menu of a DivX disc (page 34).
	c.) Play a Video-CD or DVD-Video-Disc (page 30).
PHOTO	(page 38)
	HDD: Display the **Photo List** menu of the HDD.
	Disc: Display the **Photo List** menu of the disc.
	Memory card 1/2: Display the **Photo List** menu
MUSIC	(page 35)
	HDD: Display the **Music List** menu of the HDD.
	Disc: Display the **Music List** menu (or Audio-CD) of a disc.
	Memory card 1/2: Display the **Music List** menu.
Setup	Call the **Setup** menu (this page).

Setup menu

The menu system offers several ways of changing settings. Most menus consist of three levels for setting up options. If you press (MENU) only the first and second levels of the menu system are displayed on the screen. You can display the third level by pressing ▶ . When navigating in the menus, ▶ on the right side of the menu tab shows you that the next level can be called up.

📺	Auto Programming		
A	Program Edit	✓ **Auto**	OK
🔋	**Clock Set**	**Manual**	
🔒	TV Aspect		
🔒	Display Mode		
🎞	AV2 Connection		
	Power Save Mode		
💿	Initialisation		
◄ **Prev.**	⬍ **Move**	OK **Select**	

1. Level	2. Level	3. Level

Navigation in the menu

The arrow buttons of the Assist remote control are illustrated as follows in this user guide:

(OK) The arrows correspond in the text: " ▲ ▼ ◄ ▶ ".

    The OK function is shown in the text as **OK.**

(MENU) Call menu.

    ▲ ▼ Select desired option.

    ▶ Call second level.

    ▲ ▼ Select second option.

    ▶ Call third level.

    ▲ ▼ or ▶ to select the desired setting.

    Confirm selection with **OK**.

(MENU) (END) Exit menu.

Initial Installation

The General Menu

Automatic programming

This recorder is equipped with an analog receiver (tuner) which can receive a maximum of 88 channels.

➡ When using Digital Link Plus, the channel setting is adapted to the TV set (on this page).

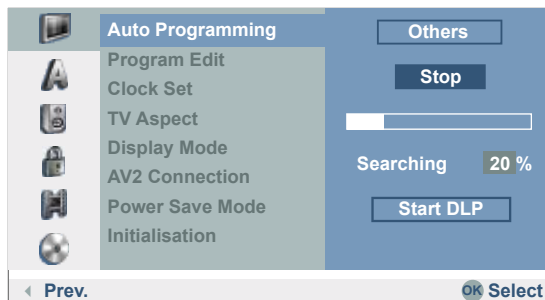➡ Connect the recorder to the aerial system (page 12).

(MENU)   Call menu.

        ▲ ▼ Select 📺 **General** symbol.

        ▶ Call second level.

        ▲ ▼ Select **Auto Programming.**

        ▶ Mark country option.

        ▲ ▼ Select **Country.**

        ▶ Mark **Start**.

(OK)   Start channel search.

    The tuner runs through all the available channels automatically and transfers the found stations to the tuner memory.

📺	**Auto Programming**	Others
A	Program Edit	
🔋	Clock Set	Stop
🔒	TV Aspect	
	Display Mode	Searching 20 %
🎞	AV2 Connection	
	Power Save Mode	Start DLP
💿	Initialisation	
◀ **Prev.**		**OK Select**

Digital Link Plus

If you have connected the recorder to a Loewe TV set with Digital Link Plus or a comparable system of another make (e.g. EasyLink, Mega Logic, Project 50), the station list will be transferred from the TV to the recorder. This happens when you log in the recorder to the TV set or when you change the stations on the TV set (resort, delete, add others). After such a change, the TV will prompt you to start transfer of the changed station list.

The recorder detects a connected TV set with Digital Link Plus or the comparable system of a different make and sets the recorder accordingly. Then you can no longer search for, delete or sort TV stations on the recorder. The menu items are displayed in grey, in the automatic search it is only possible to transfer the station data from the TV set.

Please note that all stations which you receive via aerial or cable have to be stored at channel slots 1 to 88 in the TV set. If the TV set does not prompt you to transfer the station data, start the transmission on the recorder.

Please make all station changes only on the TV set if your TV set is equipped with Digital Link Plus or a comparable system of another make.

If your TV set to which you have connected the recorder does not have Digital Link Plus or a comparable system, you should match up the stations lists of the recorder and the TV set. This makes it easier for you to find the channels on the TV set and the recorder.
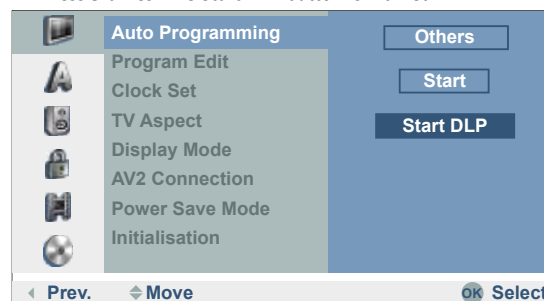
➡ Connect the recorder to the TV set with Digital Link Plus with a SCART connection (page 13).

➡ If the recorder has taken over the stations from a Loewe TV via Digital Link Plus (DLP), the functions **Program Edit**, **Move** and **Delete** are locked and cannot be used again until the channels have been overwritten again by automatic programming.

Transfer station list

(MENU)   Call menu.

        ▲ ▼ Select 📺 **General** symbol.

        ▶ Call second level.

        ▲ ▼ Select **Auto Programming.**

        ▶ Press 3 times. The Start DLP button is marked.

📺	**Auto Programming**	Others
A	Program Edit	
🔋	Clock Set	Start
🔒	TV Aspect	
	Display Mode	Start DLP
🎞	AV2 Connection	
	Power Save Mode	
💿	Initialisation	
◀ **Prev.**	↕ **Move**	**OK Select**

(OK)   Start transfer of the station list from the TV to the recorder.

    This may last a few seconds. The display on the recorder shows **DLP** during the transfer.

➡ (Viewvision DR+ Secam). French stations will only be transferred in the correct standard with Digital Link Plus if you select **France** as the country (see above) first.
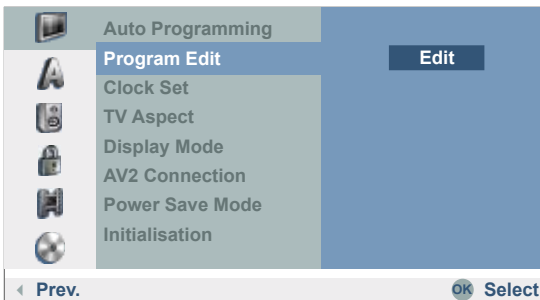
Initial Installation

Program Edit

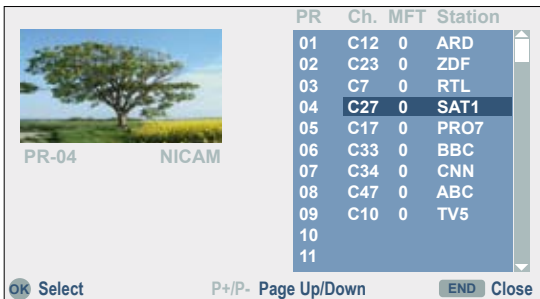You can edit a channel manually (add, delete, rename, move etc.).

(MENU)   Call menu.

     ▲ ▼   Select 🖥 **General** symbol**.**

     ▶   Call second level.

     ▲ ▼   Select **Program Edit**.

     ▶   Mark **Edit**.

🖥	Auto Programming	
A	**Program Edit**	**Edit**
🔒	Clock Set	
	TV Aspect	
🔒	Display Mode	
	AV2 Connection	
📺	Power Save Mode	
◎	Initialisation	
◀ **Prev.**		**OK** **Select**

(OK)   Confirm. The **Station List** menu is displayed.

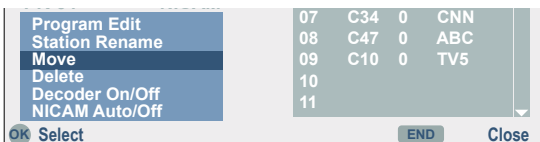|	PR	Ch.	MFT	Station
	01	C12	0	ARD
	02	C23	0	ZDF
	03	C7	0	RTL
	04	C27	0	SAT1
PR-04 NICAM	05	C17	0	PRO7
	06	C33	0	BBC
	07	C34	0	CNN
	08	C47	0	ABC
	09	C10	0	TV5
	10			
	11			
OK Select	P+/P- **Page Up/Down**		**END**	**Close**

     ▲ ▼   Select **PR** number.

Confirm with **OK**.

The available options are displayed at the bottom left.

     ▲ ▼   Select option.

Confirm with **OK**.

Program Edit	07	C34	0	CNN
Station Rename	08	C47	0	ABC
Move	09	C10	0	TV5
Delete	10			
Decoder On/Off	11			
NICAM Auto/Off				
OK Select		**END**		**Close**

Explanations of the settings

Program Edit	search, channel input, fine adjustment
Station Rename	Change name
Move	Move station in the station list
Delete	Delete station from the station list.
Decoder On/Off	Divert station via decoder (**on**).
NICAM Auto/Off	Switch off NICAM reception (**off**).

(END)   Close menu.

Program Edit

In addition to the automatic programming, it is also possible to set and store stations manually.

➠ Not with Digital Link Plus (DLP).

          ▲ ▼   Select station in the **Station List** menu.

(OK)   Confirm. The **Station List** menu is displayed.

      The available options are displayed at the bottom left.

     ▲ ▼   Select **Program Edit**.

      Confirm with **OK**.

      The **Program Edit** menu is displayed.

PR	Seek	Ch.	MFT	PAL/SECAM	
25	▲▼	S 23	0	PAL	**OK**

     ◀ ▶   Move the cursor to the previous / next column.

     ▲ ▼   Edit the setting at the current cursor position.

Explanations of the settings

PR	Indicates the selected station number (display only).
Seek	Searches for stations automatically.

     ◀ ▶   Select **Seek** and then

     ▲ ▼   start. The search is stopped when the recorder receives a station.

     Ch.   Changes the channel number.

     ◀ ▶   Select **Channel** and then

     ▲ ▼   set.

     MFT   Changes the frequency for manual fine tuning.

     ◀ ▶   Select **MFT** and then

     ▲ ▼   set.

   PAL/SECAM   Changes the reception standard in Viewvision DR+ Secam.

     ◀ ▶   With distorted negative picture select **PAL/SECAM**

     ▲ ▼   Select **SECAM** for the SECAM-L standard.

Confirm with **OK**.

Initial Installation

Station Rename

You can give whatever name you like to a station. Names should have a maximum of five characters.

▲ ▼ Select station in the **Station List** menu.

Confirm with **OK**.

The available options are displayed at the bottom left.

▲ ▼ Select **Station Rename**.

Confirm with **OK**. The **Keyboard** menu is displayed.

ABC|									
◄	**Alphabet Capital**							►	
1	2	3	4	5	6	7	8	9	0
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	Æ	Ç	Đ	Ø
'	´	^	~	"	°	Þ	ß	µ	.
Space	**Delete**		◄	►	**OK**	**Cancel**			

Enter a name for the station.

▲ ▼ ◄ ► Select character or function.

OK Insert character.

Explanations of the settings

Alphabet Capital Switches the keyboard to capitals.
Alphabet Small Switches the keyboard to small letters.
ABC...123 Inserts the selected character at the cursor position (shaded grey for special characters).
OK Save setting and exit.
Cancel Exit setting without saving.
Space Inserts a space at the cursor.
Delete Deletes characters to the left of the cursor.
◄ ► Moves the marker in the selection.
▶ Inserts a space at the cursor.
❚❚ Deletes the characters to the right of the cursor.
■ Deletes the character to the left of the cursor.
P+ / P- Moves the cursor to the left or right.
(TEXT), (INFO) Switches the keyboard back and forth between capitals and small letters.

Press the **OK** button at the end to confirm the settings and return to the **Station List** menu.

Moving stations

You can sort the order of stations in the **Station List** menu.

➠ Not with Digital Link Plus (DLP).

▲ ▼ Select station in the **Station List** menu.

Confirm with **OK**.

The available options are displayed at the bottom left.

▲ ▼ Select **Move**.

Confirm with **OK**.

▲ ▼ Select desired slot.

OK to go to the station list.

Delete Station

You can delete a station in the **Station List** menu.

➠ Not with Digital Link Plus (DLP).

▲ ▼ Select station in the **Station List** menu.

Confirm with **OK**.

The available options are displayed at the bottom left.

▲ ▼ Select **Delete**.

OK The station is deleted.

Decoder on/off

▲ ▼ Select the station which you want to divert via the decoder.

Confirm with **OK**.

The available options are displayed at the bottom left.

▲ ▼ Select **Decoder on/off.**

Confirm with **OK**.

When you select **On**, **Decoder** (with Secam: **Canal+**) appears underneath the station shown in the small picture.

Initial Installation

NICAM

This recorder can receive HiFi sound broadcasts in NICAM-Stereo. However, distortions may occur under unfavourable reception conditions. Switch off the function in this case (**off**).

▲ ▼ Select station in the **Station List** menu.

Confirm with **OK**.

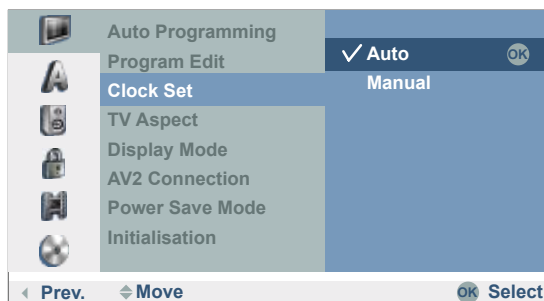The available options are displayed at the bottom left.

▲ ▼ Select **NICAM Auto/Off** under station list.

Confirm with **OK**.

When you select **Auto**, **NICAM** appears underneath the station shown in the small picture.

Clock set

When the automatic station search has finished, the date and time are set automatically (depending on the transmitting station), also when power is recovered. The **Auto** option must be set for this.

Auto Programming	
Program Edit	✓ Auto OK
Clock Set	Manual
TV Aspect	
Display Mode	
AV2 Connection	
Power Save Mode	
Initialisation	
◄ Prev. ⬍ Move	OK Select

MENU Call menu.

▲ ▼ Select **General** symbol.

▶ Call second level.

▲ ▼ Select **Clock set**.

▶ Call third level.

▲ ▼ Select **Auto**.

Confirm with **OK**.

MENU Exit menu.

➡ Please check by pressing INFO in TV mode whether the year and date have been automatically set correctly. You may have to set it manually as described under "Manual setting of date / time".

Manual Setting of the Date / Time

It is possible that the television station may broadcast incorrect date and / or time information or no information at all and that the Recorder sets the incorrect time. If this is the case we recommend that you set the clock manually.

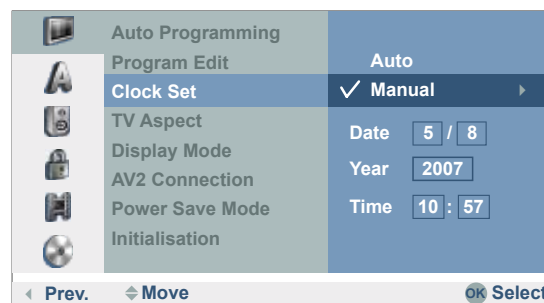MENU Call menu.

▲ ▼ Select **General** symbol.

▶ Call second level.

▲ ▼ Select **Clock set**.

▶ Call third level.

▲ ▼ Select **Manual.**

Confirm with **OK**.

Auto Programming	
Program Edit	**Auto**
Clock Set	✓ Manual ▶
TV Aspect	
Display Mode	Date 5 / 8
AV2 Connection	Year 2007
Power Save Mode	Time 10 : 57
Initialisation	
◄ Prev. ⬍ Move	OK Select

Enter the date and time.

◄ ▶ Move cursor.

▲ ▼ Enter data.

Confirm with **OK**.

MENU Exit menu.

TV Aspect

You can choose:

4:3 Select this setting if a television set with 4:3 picture format is connected.

16:9 Select this setting if a widescreen television set with 16:9 picture format is connected.

Screen Mode

The screen mode setting is only available if the TV aspect of the television is set to 4:3. You can choose:

Letter Box Widescreen format recordings appear with black borders at the top and bottom of the screen.

Pan Scan The picture fills the whole screen but cuts off areas at either side that do not fit on the screen if required.
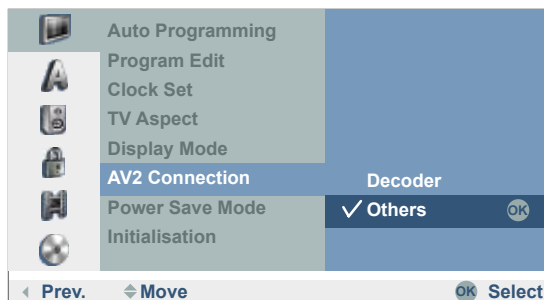
Initial Installation

AV2 connection
You can connect the following devices to the **EURO AV2 DECODER** connection on the back of the recorder:

Decoder   Connect a Pay-TV or Canal+ decoder.
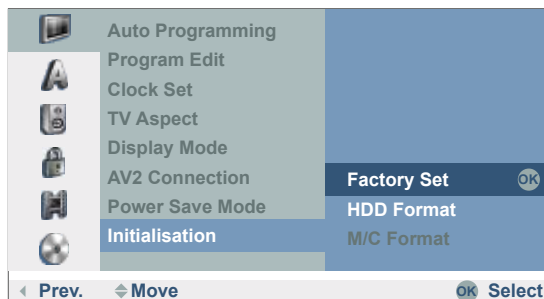**Others**   Connect a video recorder or similar device.

Auto Programming	
Program Edit	
Clock Set	
TV Aspect	
Display Mode	
AV2 Connection	Decoder
Power Save Mode	✓ Others OK
Initialisation	
◄ Prev. ⬍ Move	OK Select

Energy saving mode
You can set the recorder so that it consumes < 1 Watt on standby. In the **On** setting, the VPS timer, the decoder signal transfer from AV2 to AV1 and "Digital Link Plus" are switched off (no recording via recording wizard of the TV set possible - page 44).

Initialisation
You can reset the recorder to its factory settings if necessary. Select Factory set and press **OK**.

➠ Some options cannot be reset with this (security stage, password, country code, station list, timer list).

Auto Programming	
Program Edit	
Clock Set	
TV Aspect	
Display Mode	
AV2 Connection	Factory Set OK
Power Save Mode	HDD Format
Initialisation	M/C Format
◄ Prev. ⬍ Move	OK Select

You can format the HDD and an inserted memory card by selecting the menu item **Format HDD** or **Format M/C**. Press **OK** and confirm the option **yes** with **OK**.

Language Menu

Menu Language
Select a language for the menus and dialogues displayed by the recorder.

(MENU)   Call menu.

   ▲ ▼ Select symbol 🅰 **Language**.

   ▶ Call second level.

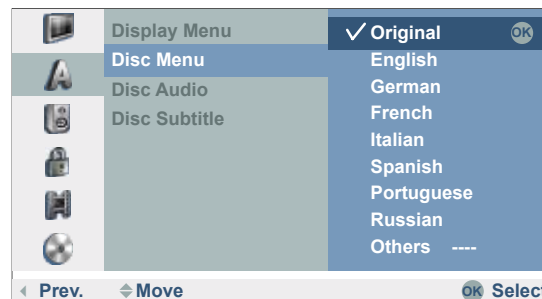   ▲ ▼ Select **Display Menu**.

   ▶ Call third level.

   ▲ ▼ Select **English**.

Confirm with **OK**.

Display Menu	✓ English OK
Disc Menu	Deutsch
Disc Audio	Français
Disc Subtitle	Italiano
	Español
	Nederlands
◄ Prev. ⬍ Move	OK Select

Disc Languages
Select a language for the disc's menu, audio and subtitles.

Display Menu	✓ Original OK
Disc Menu	English
Disc Audio	German
Disc Subtitle	French
	Italian
	Spanish
	Portuguese
	Russian
	Others ----
◄ Prev. ⬍ Move	OK Select

If another language is to be used as the "original" version of the disc, select this here if it is available on the Disc.

Original   The original language of the disc is selected.
Others   Select other language with **Other** and confirm with **OK**. Enter the corresponding four-digit number from the "language code list" on page 62 and confirm with **OK**.

Initial Installation

Audio Menu

Each DVD disc offers a variety of audio formats. Set the audio format for the recorder according to the type of audio system you are using.

Dolby Digital / DTS / MPEG

PCM   Select this option if the unit is connected to a digital two channel stereo amplifier. The DVD recorder's digital audio outputs emit sound in PCM 2 channel format if you play a DVD-Video disc with Dolby Digital audio format.

Bitstream   Select "Bitstream" if you have a Dolby Digital decoder (or amplifier, a Loewe TV with AC3 or DIS module or another unit with Dolby Digital decoder) connected to the DIGITAL OUT socket of the DVD recorder.

OFF   If you select "Off" the DTS signal is not emitted from the DIGITAL OUT socket.

Sampling Frequency

If your receiver or amplifier is NOT designed for 96 kHz signals, select 48 kHz. If you have made this selection, the unit automatically converts the 96 kHz signals to 48 kHz signals that the system can decode. If your receiver or amplifier is designed for 96 kHz signals, select 96 kHz.

Night Mode

Thanks to digital audio technology the DVD format enables you to hear soundtracks in the most accurate and realistic way possible. However, you may wish to limit the dynamics (i.e. the difference between the loudest and the quietest sounds). In this way you can play a film with minimum volume differences. For this purpose switch DRC to **ON**.

	Dolby Digital		
	DTS		
	MPEG		
	Sampling Freq.		
	DRC	✓ OFF	OK
	Vocal	ON	
◄ Prev.	◆ Move		OK Select
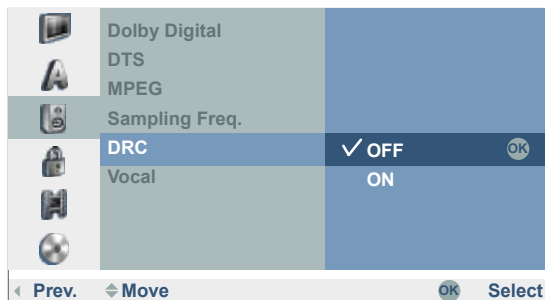
Karaoke Audio

Switch the singing option (**Vocal**) on, if you want to play a multi-channel karaoke DVD. The karaoke channels on the disc are mixed into normal stereo sound.

Lock Menu

Films on DVD can contain scenes that are not suitable for children. For this reason discs can contain child protection information that applies to the whole disc or only to certain scenes on the disc. The ratings are country-dependent. The child lock function enables you to prevent your children watching certain discs or scenes.

Set Password

Change the four-digit code.

	Rating	
	Set Password	Change
	Area Code	**New Password**
	DivX Reg. Code	▮ ▯ ▯ ▯ OK
◄ Prev.		0-9 Input
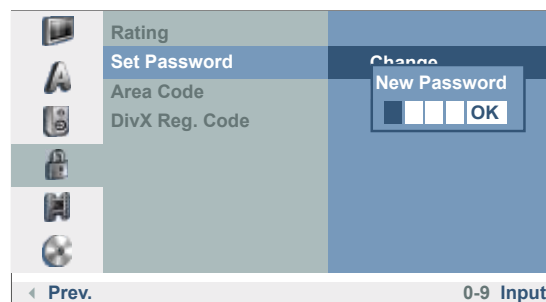
(MENU)   Call menu.

▲ ▼   Select symbol 🔒 **Lock**.

▶   Call second level.

▲ ▼   Select **Set Password**.

▶   Call third level.

If you have not yet entered a password

Enter a four-digit number with **number buttons**.

Confirm with **OK**.

Enter password to check.

Confirm with **OK**.

If you have already entered a password

Select **Change**.

Confirm with **OK**.

Enter current password.

Confirm with **OK**.

Then enter a new four-digit password.

Confirm with **OK**.

Initial Installation

Enter password to check.

Confirm with **OK**.

➥ If you make a mistake, press ◀ repeatedly before you press **OK** to delete or correct the password numbers one after another.

Switching off the password
Proceed as follows if you want to switch off the password.

(MENU)   Call menu.

▲ ▼   Select symbol 🔒 **Lock.**

▶ Call second level.

▲ ▼   Select **Set Password**.

▶ Call third level.

▲ ▼   Select **Delete**.

Confirm with **OK**.

Enter a four-digit number with **number buttons.**

Confirm with **OK**.

Delete Password
If you forget your password, proceed as follows to delete the current password.

(MENU)   Call menu.

Enter the six-digit number "210499" with the **number buttons**.

A message is displayed.

◀   ▶ Select the **yes** button.

Confirm with **OK**.

The four-digit password is deleted. Enter a new password as described above.

Rating
This function prevents playing of DVDs unsuitable for children if these contain the appropriate code.

(MENU)   Call menu.

▲ ▼   Select symbol 🔒 **Lock.**

▶ Call second level.

▲ ▼   Select **Rating.**

📺	**Rating**	**No Limit** 🆗
🅰	**Set Password**	**8 (Adult)**
🔲	**Area Code**	**7**
	DivX Reg. Code	**6**
🔒		**5**
		4
📓		**3**
		2
💿		**1 (Children)**
◀ Prev.	⬍ Move	🆗 Select

▶ Call third level.

Enter the four-digit password with the **number buttons** (see **Set Password**).

Confirm with **OK**.

▲ ▼ Select security stage between 1 and 8.

No Limit If you select "No Limit", the parental lock is not active. The disc will be played fully.

Step 1 to 8 Some discs contain scenes which are unsuitable for children. If you assign the recorder a security stage, only those scenes of the inserted disc will be played which correspond to the assigned security stage or have a security stage below it.

"1" has the most play restrictions.

"8" has the least play restrictions.

Scenes with a higher rating on the DVD are only played when appropriate substitute scenes are available on the disc. The alternative scene must have the same or a lower security stage. If no suitable alternative is found, the recorder stops playing. You have to enter the four-digit password or change the rating to play the disc.

Confirm with **OK**.

Initial Installation

Area Code

Enter the code for a country/region whose standards are to be used to rate the DVD-Video disc. (See "List of country code" on page 63). For Great Britain select "G B".

Rating	
Set Password	
Area Code	⬍ G B
DivX Reg. Code	

◀ Prev.   ⬍ Move   ▶ Next   OK Select
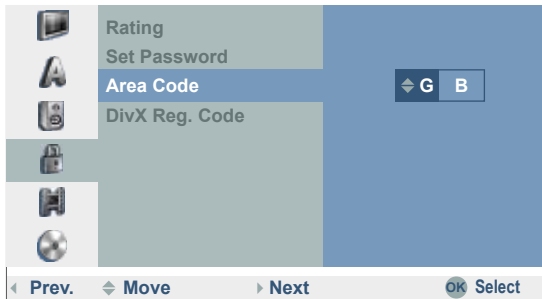
(MENU)   Call menu.

   ▲ ▼ Select symbol 🔒 **Lock.**

   ▶ Call second level.

   ▲ ▼ Select **Area Code**.

   ▶ Call third level.

Enter the four-digit password with the **number buttons** (see "Set Password").

Confirm with **OK**.

   ▲ ▼ Enter data.

   ◀ ▶ Move cursor.

Confirm with **OK**.

DivX registration code

You receive the DivX® VOD (Video On Demand) registration identification for hiring and purchasing films through the DivX® VOD-Service. Further information is available under:
www.divx.com/vod.

(MENU)   Call menu.

   ▲ ▼ Select symbol 🔒 **Lock.**

   ▶ Call second level.

   ▲ ▼ Select **DivX Reg. Code**.

   ▶ Call **View**.

Confirm with **OK**.

The "registration code" valid for your device is now displayed.

Rating
Set Password
DivX(R) Video On Demand
Your registration code is: YJ3ZEJUR
To learn more visit <www.divx.com/vod>
OK

◀ Prev.   OK Select
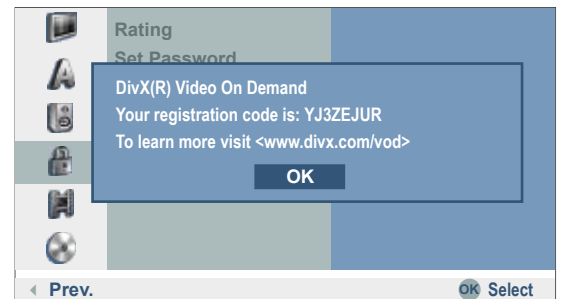
You can use this registration code to hire or buy movies through the DivX® VOD Service under www.divx.com/vod.

See the instructions for saving movies on a disc for playing on this recorder.

➡ All movies purchased from DivX® VOD can be played <u>only on this recorder</u>.
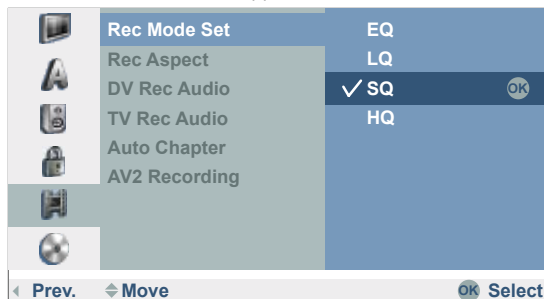
Initial Installation

Recording Menu

Rec Mode Set

You can set the picture quality for recording:

DVD+/-R/RW (4,7 GB)		
	HQ mode:	approx. 1 hour.
	SQ mode:	2 hours.
	LQ mode:	4 hours.
	EQ mode:	6 hours.

HDD (160 GB)		
	HQ mode:	approx. 43 hours.
	SQ mode:	approx. 80 hours.
	LQ mode:	approx. 152 hours.
	EQ mode:	approx. 227 hours.

MENU   Call menu.

▲ ▼   Select symbol 🎞 **Record.**

▶   Call second level.

▲ ▼   Select **Rec Mode Set.**

▶   Call third level.

▲ ▼   Set desired recording quality (EQ, LQ, SQ or HQ).

Confirm with **OK**.

Rec Aspect

You can adapt the picture format (16:9 or 4:3) to the material being recorded during the recording.

DV Rec Audio

You need to use this setting if your camcorder with
32 KHz / 12-bit is connected to the **DV IN** socket on the front panel.
Some digital camcorders have two stereo tracks for audio. One is used for recording, the other is used for post-editing.
On the **Audio 1** setting the original sound is recorded.
On the **Audio 2** setting the edited sound is used.
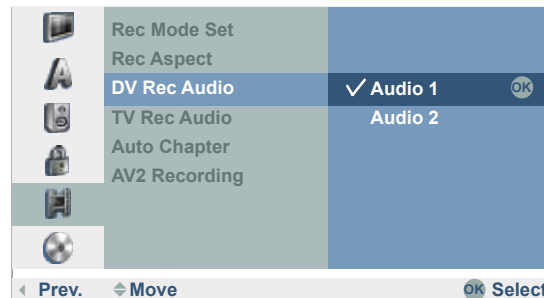
TV Rec Audio

When recording bilingual TV you can select the audio channel to be recorded.

        .   **Audio 1+2**: both languages are recorded.
            Audio 1: language 1 only.
            Audio 2: language 2 only.

Auto Chapter

Chapter start marks are inserted at fixed intervals in recordings on DVDs in video mode. You can select intervals of 5, 10 or 15 minutes. If you select **None** automatic chapter setting is switched off.
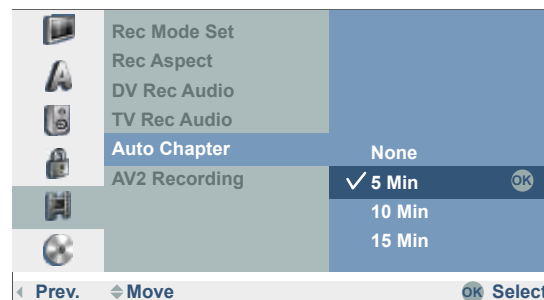
AV2 Recording

The signal type can be selected to record the video in signal of a device connected to the **EURO AV2 DECODER**.

     Auto   The video in signal is adapted automatically to the received video signal.

     CVBS   Only for recording a CVBS input signal.

     RGB   Only for recording an RGB input signal.

Initial Installation

Disc Menu

Disc Format
The recorder automatically initialises a new disc when it is inserted.

DVD-R	The recorder initializes the disc in "video mode".
DVD-RW	The recorder initializes the disc in "VR mode".
DVD+R	The recorder initializes the disc in "video mode".
DVD+RW	The recorder initializes the disc in "video mode".

➠ A *DVD+RW* or *DVD-RW* disc can also be initialised later by menu:

Disc Format	**Start**
Finalise	
Disc Label	
Disc Protect	
PBC	

| ◄ **Prev.** | OK **Select** |
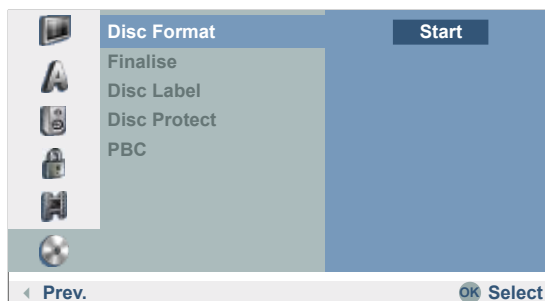
MENU   Call menu.

▲ ▼   Select symbol 💿 **Disc**.

▶ Call second level.

▲ ▼   Select **Disc Format.**

▶ Call third level.

OK call **Start** menu**.**

◄ ▶ Select a desired format for DVD-RW (**Video mode** or **VR mode**).

Confirm with **OK**.

Disc Format

Select a Mode.

VR Mode   **Video Mode**
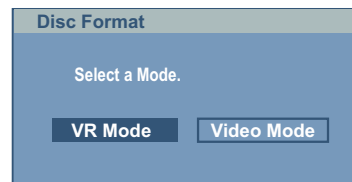
The following prompt appears:

Disc Format

All data on the disc will be deleted. Proceed?

OK   **Cancel**
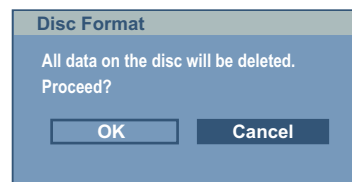
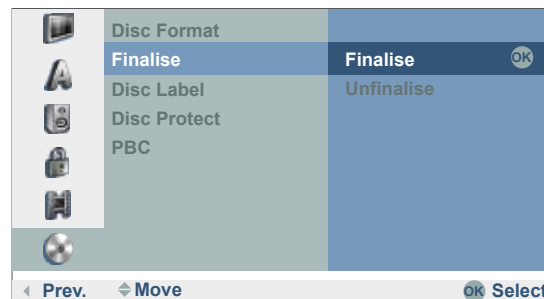◄ ▶ Select **OK** button.

Confirm with **OK**.

➠ When you start formatting all recordings on the disc are deleted.

After pressing **OK** disc formatting begins. It can take a few minutes.

Finalisation
Finalisation fixes recordings so that the disc can be played on a regular DVD player or a computer with a suitable DVD-ROM drive. During finalisation of a Video mode disc a menu is created for disc navigation (Page 56).

➠ Following recording and finalisation of DVD-R and DVD+R discs no other editing or recording can take place. This does not however apply for a DVD+RW and DVD-RW disc.

Disc Format	
Finalise	**Finalise** OK
Disc Label	Unfinalise
Disc Protect	
PBC	

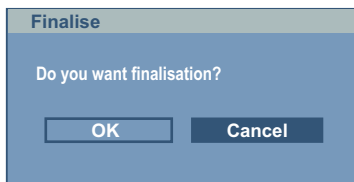| ◄ **Prev.** | ⬍ **Move** | OK **Select** |

Initial Installation

(MENU)   Call menu.

▲ ▼   Select symbol 🔘 **Disc**.

▶ Call second level.

▲ ▼   Select **Finalise**.

▶ Call third level.

▲ ▼   Select **Finalise**.

Confirm with **OK**.

Finalise

Do you want finalisation?

OK	Cancel

◀ ▶   Select **OK** button.

Confirm with **OK** to finalise the disc.

➠ The time needed for finalisation depends on the type of disc, how much is recorded on the disc and the number of titles on the disc. Finalisation of a prerecorded disc can take up to 8 minutes.

➠ When inserting a finalised DVD-RW, the finalisation can be cancelled by selecting **Unfinalise** in the **Finalise** menu. Then the disc can be edited and rewritten.

Disc Label

Use this option to enter a name for the disc. The name is displayed when the disc is loaded and when you display disc information on the screen.

➠ The disc name can be up to 32 characters long.

➠ For discs formatted on other recorders you will only see a limited character set.
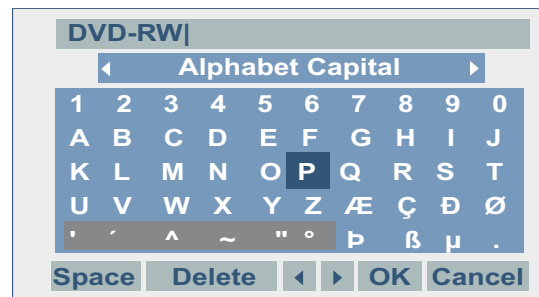
(MENU)   Call menu.

▲ ▼   Select symbol 🔘 **Disc**.

▶ Call second level.

▲ ▼   Select **Disc Label**.

▶ Call **Edit**.

Confirm with **OK**.

DVD-RW|

◀   **Alphabet Capital**   ▶

1	2	3	4	5	6	7	8	9	0
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	Æ	Ç	Ð	Ø
'	´	^	~	"	°	Þ	ß	µ	.

Space	Delete	◀ ▶	OK	Cancel

Enter a name for the disc.
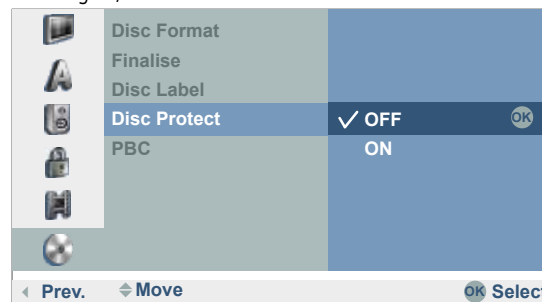
▲ ▼ ◀ ▶   Select character or function.

Insert **OK** character.

See **Station Rename** on page 19 for functions.

Save with **OK** button.

Disc Protect

Set Disc Protect to **On** to avoid accidental recording, editing or deleting of the disc. To release the disc again, select **OFF**.

	Disc Format		
	Finalise		
	Disc Label		
	Disc Protect	✓ OFF	OK
	PBC	ON	

◀ Prev.   ⬍ Move   OK Select

PBC - Play-Back Control

VCD, SVCD

If a VCD (or SVCD) possesses the property of Play-Back Control (**PBC**) and the PBC menu is set to **ON**, the disc is played via the menu on the disc. Otherwise the VCD can be played like an audio CD but without a track list.

Initial Installation

Additional Screen Menus

This manual contains basic instructions for operating the recorder. Some DVDs require specific handling or only permit limited operation during playback. If this is the case the ⊘ symbol appears on the screen. This indicates that certain operations are not permitted at certain points or that no menu is available on the disc

The Disc Info menu

If you are currently watching a TV channel supplied by the integrated receiver of the recorder (recorder in Stop mode), you can show (and hide) information about the TV station and the inserted disc with **OK** or (INFO).
Example: A DVD-RW in the VR mode is inserted and the station **01** with the name "Kabel" is on at the moment:

Indicates the channel number, the station name and the audio signal (NICAM, STEREO, MONO, BILINGUAL) of the station you are currently watching.

Indicates in a progress bar the ratio of used to free space on the inserted disc, the free space in hours (**H**) and minutes (**M**) and the recording quality (for other discs see page 25).

Indicates the name, mode and format of the disc.
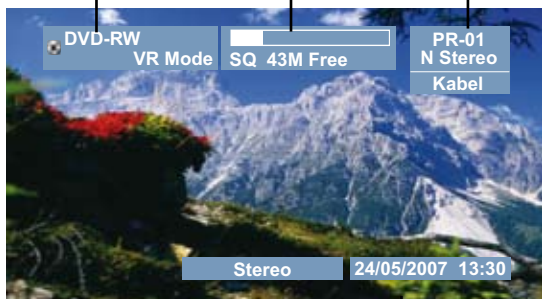
Indicates the current date and time.

Temporarily Visible Symbols

⏸⏹   Resume play from this point.

⊘   Action prohibited or not available.

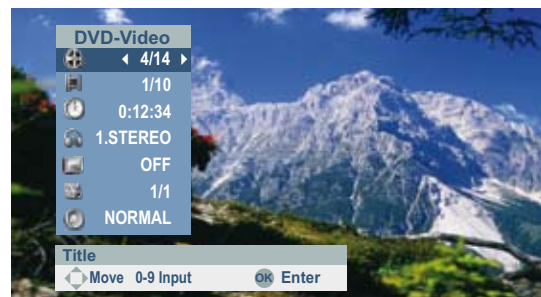➡ Not all discs provide all the functions described below.

➡ The screen menu closes automatically when no buttons are pressed for 10 seconds.

Displaying Disc Information on the Screen during Disc Playback

You can display a variety of information about the inserted disc on the screen.

(INFO)   Twice to select the Title menu.

▲ ▼ Select the desired function.

Title	Current title (or track number)/total number of titles (page 30).
Chapter	Current chapter number/total number of chapters (page 30).
Time	Elapsed playing time (page 31).
Sound	Selected sound formats, movie language and audio channels (page 32).
Subtitles	Selected subtitle (page 33).
Camera	Selected camera position / total number of camera positions (page 32).
Sound	(3D-surround) selected sound mode (page 32).

(END)   Exit menu.

HDMI mode

HDMI (DVI) connection

The HDMI connection (High Definiton Multimedia Interface) allows digital picture and sound transmission via a connecting cable, e.g. to Loewe Flat TV sets. The digital picture and sound data are transmitted without data compression and therefore lose none of their quality. In the equipment connected, no analogue/digital conversion is necessary, which might also have lead to losses in quality.
DVI signals can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. This is possible because HDMI is based on DVI and is downwardly compatible. That means that the digital video signals are transmitted via HDMI - no audio signals are transmitted, though. In addition, both use the same copy protection method HDCP (High Definition Content Protection).

Switch off the TV set/monitor with HDMI connection and recorder.

Connect recorder to TV set/monitor via HDMI connection as described on page 13.

Switch on the TV set/monitor.

Switch on the recorder after 30 seconds.

Log in the HDMI connection in the connection wizard of the TV set (see user guide TV set).

➠ DVI: If a DVI-HDMI adapter cable is used for transmission, connect the analog or digital audio outputs on the recorder with the corresponding inputs of the TV set as described on pages 13 and 14.

Leave the existing SCART connection as it is to record from the TV.

HDMI operation

Switch the TV set over to the HDMI AV input (takes place automatically in connection with a -Loewe Flat-TV set, see page 13).

Press the **RES** button on the recorder repeatedly to set the desired picture resolution (e.g. **576i**, **576p**, **720p**, **1080i**).

➠ You can only set resolutions which your TV set/monitor is capable of. For optimum picture quality, select the resolution **1080i** on the recorder.

Open the disc drawer.

Insert the selected disc in the drawer with the side to be played facing down.

Close the drawer.

Call main menu.

◄ ► Select **FILM**.

▲ ▼ Select **HDD, HDD DivX** or **Disc**.

Confirm selection with **OK**.

A menu appears on the screen.

▲ ▼ ◄ ► Select title on DVD.

Depending on the medium, playing starts automatically or is started with the Play button or you have to make entries in the menu.

➠ The other sockets (VIDEO OUT, S-Video and Component Video) have no function during the HDMI mode.

➠ With an HDMI connection the audio scanning frequency is only 48 kHz, even when selecting 96 kHz.

➠ This recorder performs no internal (2-channel) decoding of DTS soundtracks. In order to enjoy DTS multi-channel surround sound, this recorder must be connected by one of the digital audio outputs to a DTS-compatible receiver.

➠ If the "Dolby Digital" or "MPEG" option has not been set to "PCM" in the Sound menu (page 22), no sound is output through the TV set.

➠ The HDMI connection to the recorder is operated as a signal output. Please proceed as described on page 44 if you want to record from an external signal source with the recorder.

Video mode

Playing back a DVD or video CD

Preparation
Switch the television on and set the video source to be the input that the recorder has been connected to or activate the "Control voltage" option for the television's AV input.
If you have connected the recorder to an audio system, switch on the audio system and, as the source, set the input that the DVD recorder has been connected to.

⏏ Open the disc drawer.

Insert the selected disc in the drawer with the side to be played facing down.

⏏ Close the drawer.

READING shows on the display while disc recognition is in progress.

Play

ASSIST Call main menu.

◀ ▶ Select **FILM**.

▲ ▼ Select **HDD, HDD DivX** or **Disc**.

Confirm selection with **OK**.

A menu appears on the screen.

▲ ▼ ◀ ▶ Select title on DVD.

▶ Start / continue playing.

Select title on (S)VCD.

The menu setting and the exact operating instructions for the disc may differ from disc to disc. Follow the instructions on the individual menu pages.

⏸ **Pause**: Pause playing.

⏹ **Stop**: Finish playing.

You will find further information on page 28.

➡ If the child lock is active and the DVD disc's security rating is higher than that of the child lock, the four-digit password will need to be entered (see "Ratings" on page 23).

➡ DVD's have a country code. The recorder will not play a disc that has a country code which differs from the country code stored in the unit. This player has country code 2.

➡ You can also switch off (**OFF**) PBC for (S)VCD (see page 27) in the main menu.

General functions

➡ Unless otherwise indicated, the remote control (page 3) is able to control the functions described. The recorder's own controls can also be used to control certain functions (page 4).

Select TITLE   *HDD DVD-ALL DivX*

INFO Twice to select the Title menu.

🎬   ◀ 4/14 ▶

▲ ▼ Select 🎬 symbol.

◀ ▶ Select title number.

OK start playing.

Select CHAPTER / TRACK
HDD DVD-ALL VCD

If a title has several chapters/tracks, you can select another chapter/track as follows:

P+ or **P-** during playing to select the next chapter/next track or return to the beginning of the current chapter/track.

P- twice briefly to return to the previous chapter/track.

Search   *HDD DVD-ALL VCD DivX CD*

Select the search direction and speed:

◀◀ Press several times for faster search in reverse.

▶▶ Press several times for faster search forwards.

Speed and direction are shown as arrows.

▶ End search mode and continue playing.

Skip

◀ ▶ Jump back/forward 5 minutes during playing (*HDD*).

Jump forward 15 seconds during playing (*HDD*, *DVD±R*, *DVD±RW*).

EPG

Video mode

Freeze frame and picture for picture play-back
HDD DVD-ALL VCD DivX

Pause: Pause playing.

◀ ▶ Scroll picture by picture.

Continue playing.

➟ The picture by picture scroll back is not supported by Video-CDs and in DivX. You can page forward through images by pressing **PAUSE** on the remote control.

Slow Motion
HDD DVD-ALL VCD

Pause: Pause playing.

◀◀ ▶▶ Switch on slow motion mode during pause.

Select the slow motion direction and speed:

◀◀ 1/16, 1/8, 1/4, 1/2 (reverse).

▶▶ 1/16, 1/8, 1/4, 1/2 (forwards).

▶▶ 1/8, 1/4, 1/2 (forwards / VCD).

Slow motion speed and direction are displayed.

▶ End slow motion mode and continue playing.

➟ On Video-CD the slow motion play-back in reverse is not supported.

Repeat *HDD DVD-ALL VCD CD MP3*

DVD-Discs

● ● ● ● Select type of repetition.
Chapter Repeats the current chapter.
Title Repeats the current title.
All Repeats all titles on the disc (VR mode; only DVD-RW disc).
Off No repeat.

Video-CDs / DivX

● ● ● ● Select type of repetition.
Track Repeats the current track.
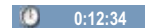**All** Repeats all tracks on the disc or in the folder (DivX).
Off No repeat.

➟ On a Video-CD with PBC you have to set **PBC** to **OFF** in "Disc" menu of the main menu to use the repeat function. You will find further information on page 27.

Time (Play from …) *HDD DVD-ALL DivX*
The "Time" function enables you to select where a disc starts playing.

INFO Press twice.

🕐 **0:12:34**

The elapsed playing time of the current disc is displayed in the "Time" box.

▲ ▼ Select 🕐 symbol.

Enter time in format h:mm:ss.

OK start playing from set time.

Zoom *HDD DVD-ALL VCD*
With the Zoom function you can enlarge the video picture during playback and navigate in the enlarged picture.

● ● ● ● Select Zoom function during play/freeze frame.

Zoom stages: x1, x2, x4, x1 (normal size).

◀ ▶ ▲ ▼ Select picture section.

END Close Zoom window.

➟ The Zoom function may not work on certain DVDs.

Markers *HDD DVD-ALL VCD*
You can start playing from a saved marker. A maximum of six markers may be saved.

Set Marker

● ● ● ●

Press the blue button briefly to set a mark at a selected point.

The marker symbol is displayed on the screen for a short time.

HDD
🔖 **1/6**

Repeat this step to enter a maximum six markers on one disc.

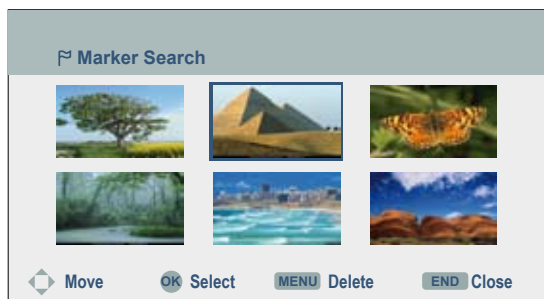### Call Marker

● ● ● ● Press the blue button long to select **Marker Search** menu.

▲ ▼ ◀ ▶ Select marked scene.

OK Start playing from marked scene.

Video mode

⚑ **Marker Search**

| ⬩ Move | OK Select | MENU Delete | END Close |

Delete Marker

🔴 🟢 🟡 👆 Press the blue button <u>long</u> to select **Marker Search** menu.

▲ ▼ ◄ ► Select marked scene.

MENU · Delete Marker.

◄ ► Select **yes** option.

Confirm with **OK**.

END · Exit the Marker Search menu.

➠ The markers are only saved until the disc is changed (*DVD-ALL VCD)*.

Disc menu *HDD DVD-V VCD*

DVDs and Video CDs usually contain their own menus.

TEXT · Select **Disc menu**.

▲ ▼ ◄ ► Select the desired settings.

Confirm with **OK**.

■ · Exit **Disc menu** *DVD*.

END · Exit **Disc menu** *HDD*.

Camera positions *DVD-V*

If the DVD contains scenes taken at different camera positions, it is possible to change to another camera position during play-back.

INFO · Select twice during play-back.

▲ ▼ Select ▦ symbol.

◄ ► Select the desired camera angle. The number of the current camera position is displayed.

📷 **1/1**

➠ A camera symbol will appear on the screen during scenes that were recorded using different camera positions.

Digital sound formats, movie language and audio channels

You can select the digital sound format in connection with the movie language here.

INFO · Select twice during play-back.

▲ ▼ Select 🎧 symbol.

🎧 **1.STEREO**

◄ ► Select other movie language or sound format (*DVD-V DivX*).

◄ ► Select other audio channel (STEREO, LEFT or RIGHT) (*VCD Video VR*).

➠ Some discs have got Dolby Digital and DTS sound tracks. If DTS is selected, there is no analogue audio output. To listen to the DTS sound track, connect the recorder via one of the digital outputs to a DTS amplifier (page 14).

3D-Surround *DVD-ALL VCD DivX*

This device can create a 3D surround effect which simulates a multi-channel audio reproduction with two conventional stereo speakers.

INFO · Select twice during play-back.

▲ ▼ Select ◉ symbol.

◉ **NORMAL**

◄ ► Select **3D SUR**. for surround sound.

◄ ► **NORMAL** to end surround sound.

Video mode

Subtitles *DVD-ALL DivX*

(INFO)   Select twice during play-back.

▲ ▼ Select [▭] symbol.

[▭]	OFF

◀ ▶ Select the desired subtitle language.

Playing memory media with mixed contents

If the memory media contain files of different playing formats such as MP3, JPG and DivX, you can switch between the three play modes **MOVIE**, **PHOTO** and **MUSIC** with the button (ASSIST) in the main menu (page 16):

➠ For operation of the **MOVIE** mode, see chapter "DivX mode" on page 34.

➠ For operation of the **MUSIC** mode, see chapter "Audio mode" on page 35.

➠ For operation of the **PHOTO** mode, see chapter "Photo mode" on page 38.

Storing the last disc settings

DVD-V Video VR
The recorder saves the user settings for the last disc that you have watched. The settings are saved until you remove the disc from the recorder or switch it off.
If you insert a disc that has already been played back, playback will continue from the last stopping point.

PIP (Picture In Picture)

HDD DVD-ALL
This function enables you to watch TV stations or videos from other connected AV sources whilst playing the video.

▶   Start play-back.

PIP   Switch on small picture.

Select station for small picture in TV mode.

0 AV   Select signal source for the small picture in the order Tuner, AV1, AV2, AV3, AV4, Tuner.

■   End play-back and PIP. Transfer small picture to large picture.

◀ ▶ Select desired small picture position.

Yellow button – Select Zoom function for the small picture.

Three different sizes are available.

PIP   Switch off small picture.

DivX mode

With this recorder you can play DivX files which are saved on HDD, CD-R/RW or DVD±R/RW media.

➥ Before playing DivX files, please read the notes "About DivX Video files" on this page.

Playing DivX files

⏏   Open the disc drawer.

Insert the selected disc in the drawer with the side to be played facing down.

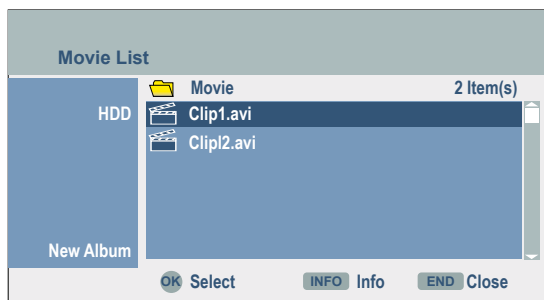⏏   Close the drawer. The disc is read.

ASSIST   Call main menu.

◀ ▶ Select **MOVIE**.

▲ ▼ Call **HDD DivX** or **DISC**.

OK   Confirm selection with **OK**. The **Movie List** menu appears on the screen.

Movie List		
	📁 **Movie**	**2 Item(s)**
HDD	🎬 **Clip1.avi**	
	🎬 **Clipl2.avi**	
New Album		
	OK Select INFO Info END Close	

▲ ▼ Select title or folder.

OK show menu options for file.

▲ ▼ Select option.

Confirm with **OK**.

▶   Start play-back.

P+ or **P-** during play-back to select the next title or return to the beginning of the current title.

P- twice briefly to return to the previous title.

■   Finish playing.

INFO   Show detailed information.

END   Exit DivX menu.

See page 30 onwards for other operating func tions.

DivX subtitles

For subtitles to be displayed correctly press **MENU** – **LANGUAGE** – **Disc Subtitles** and select the desired subtitle language.
To select the correct character set for the subtitles, press the red button 🔴 🔘 🟡 🔵 during play-back and then select the desired character set with ◀ ▶ .
The subtitles function can be switched on and off like on DVD-Video (page 33).

About DivX Video files

This recorder is compatible with the following DivX formats:

- The maximum picture resolution of the DivX file is less than or equal 720 x 576 (H x V) pixels.
- The filename of the DivX file has a maximum of 47 characters.
- Characters in DivX filenames which cannot be displayed are shown as "_".
- The unit can not correctly play image refresh rates of > 30 images per second.
- If the sound and picture are out of sync, either the sound or the picture is played.
- This recorder does not support the "GMC" DivX/Xvid function.
- Valid DivX file extensions for videos are: ".avi", ".divx".
- Valid DivX file extensions for subtitles are: ".smi", ".srt", ".sub" (only Micro DVD, Subviewer 1-2 formats), ".txt" (only Micro DVD, T1-4 formats). Other subtitles cannot be displayed.
- Valid DivX Codec formats: "DivX3.xx", "DivX4. xx", "DivX5.xx", "XVID", "3IVX".
- Valid DivX Audio formats: "Dolby Digital" (AC3), "PCM", "MP2", "MP3", "DTS (only at DIGITAL OUT)", "WMA".
- MP3 sampling rates: 8 - 48 kHz.
- WMA sampling rates: 32 - 48 kHz.
- MP3 bit rates: 32 - 320 kbps.
- WMA bit rates: 32 - 192 kbps.

Audio mode

Playing titles on Audio CD or MP3/WMA media

Audio CDs can be played with the recorder. Recordings in MP3/WMA format can also be played from HDD, memory card, CD-ROM, CD-R or CD-RW discs (read the instructions for MP3/WMA recordings on page 36 before playing MP3/WMA recordings).

⏏ Open the disc drawer.

Insert the selected disc in the drawer with the side to be played facing down.
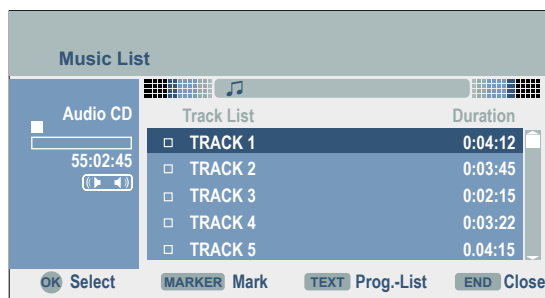
⏏ Close the drawer.

ASSIST Call main menu.

◀ ▶ Select **MUSIC**.

▲ ▼ Select **HDD** / **DISC** / **Memory Card 1/2**.

Confirm selection with **OK**. The **Music List** menu appears on the screen.

AUDIO CD menu

Music List		
Audio CD	**Track List**	**Duration**
55:02:45	☐ **TRACK 1**	**0:04:12**
	☐ **TRACK 2**	0:03:45
	☐ **TRACK 3**	0:02:15
	☐ **TRACK 4**	0:03:22
	☐ **TRACK 5**	0:04:15
OK Select	**MARKER** Mark **TEXT** Prog.-List	**END** Close

MP3/WMA menu

Music List		
CD	🎵 **TITLE1.mp3**	
	📁 Music	
	📁 ..	
Play	☐ **TITLE.mp3**	
Random	☐ **TITLE2.mp3**	
Copy	☐ **TITLE3.mp3**	
Program add	☐ **TITLE4.mp3**	
OK Select	**MARKER** Mark **TEXT** Prog.-List	**END** Close

▲ ▼ Select title.

▶ Start **Play.**

The elapsed playing time of the current track/current file is displayed on the left.

Playing stops automatically at the end of the disc/list.

TEXT Change between program and original list.

INFO Display detailed information (only MP3/WMA).

■ Finish playing.

Options in the music menus

▲ ▼ Select title or folder.

OK display menu options.

▲ ▼ Select option.

Confirm with **OK**.

New album	Create new folder.
Play	Starts playing the selected tracks/files.
Random	Random play-back order of the tracks/files.
Program add	Inserts track/file in the program list (page 37).
Copy	Copy files to folder or data medium (page 36).
Move	Move files to folder or data medium (page 36).
Open	Open folder and show contents.
Delete	Deletes selected title/folder.
Rename	Change file/folder name.

Pause

⏸ Pause playing.

▶ Continue playing.

Play another title

P+ or **P-** during play-back to select the next title or return to the beginning of the current title.

P- twice briefly to return to the previous title.

Enter the track number of the desired title directly with an Audio-CD.

Search *CD*

◀◀ ▶▶ Switch on seek mode during play-back.

Select the search direction and speed:

◀◀ x2, x4, x8 (reverse).

▶▶ x2, x4, x8 (forwards).

Search speed and direction are displayed.

▶ End search mode and continue playing.

Audio mode

Random play

▲ ▼ Select title or folder.

OK display menu options.

▲ ▼ Select **Random**.

Confirm with **OK**. The random play-back starts and the symbol is displayed: Random.

Skip the current title with **P+**.

Hints for MP3/WMA recordings

- Sampling rates: MP3: 8 - 48 kHz; WMA: 24 - 32 kHz.
- MP3 bit rates: 32 - 320 kbps.
- WMA bit rates: 32 - 192kbps.
- An MP3 file consists of audio data compressed with the MPEG1 Audio Layer-3 file coding.
- A WMA file (Windows Media Audio) consists of data which have been compressed with the Windows Media Codec.
- The filenames must have the extension ".mp3" or ".wma".

Compatibility of MP3 discs

- The physical format of the CD-R must conform to ISO 9660 and JOLIET.
- The physical format of the DVD+R/RW must correspond to ISO 9660 (UDF Bridge-Format).
- The total number of files in a folder on the disc may not exceed 1999.

➠ **Please note that permission is required for downloading MP3/WMA files and music from the Internet. The required permission must be obtained from the respective copyright owners or their representatives.**

Copy/move files/folders

Files and folders can be copied or moved to other data media depending on the medium.

➠ Switch off the memory card's write protection.

➠ Check whether the memory medium has enough free capacity.

▲ ▼ Select file or folder.

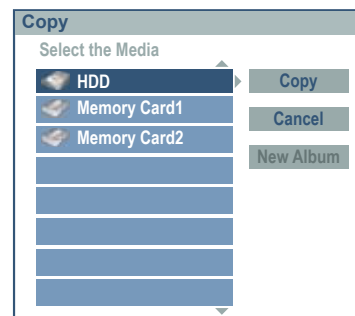Confirm with **OK**. Display menu options.

▲ ▼ Select **Edit**.

▶ Call second level.

▲ ▼ Select **Copy** / **Move**.

Confirm with **OK.**

The **Copy** or **Move** menu appears.

Copy	
Select the Media	
▲	
🖥 HDD	▶ Copy
💾 Memory Card1	Cancel
💾 Memory Card2	New Album
▼	

▲ ▼ Select the folder on the memory medium.

or create a new folder with **New Album**.

▶ ▲ ▼ Select **Copy** / **Move**.

Confirm with **OK.**

The selected files / folders are copied to the memory medium into the selected folder.

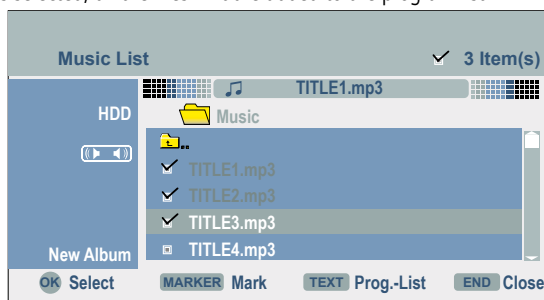**Cancel** returns to the start menu.

Audio mode

Program list

With the program list you can put together your favorite titles on a memory medium in any order for your individual program. This list may contain 99 titles (Audio CD) or 256 titles (MP3/WMA). Program lists can be saved permanently, renamed, deleted and loaded as often as you like.

▲ ▼ Select title or folder.

◼ ◼ ◼ ⏍ Mark title or folder. A symbol (✓) appears in front of the title/folder. Repeated pressing marks other titles/folders.

➥ If a folder is selected, all the files in it are added to the program list.

Music List		✓ 3 Item(s)
	♫ **TITLE1.mp3**	
HDD	📁 Music	
(▶ ◀)	↰..	
	✓ TITLE1.mp3	
	✓ TITLE2.mp3	
	✓ **TITLE3.mp3**	
	◻ TITLE4.mp3	
New Album		
OK Select	MARKER Mark	TEXT Prog.-List END Close

OK display menu options.

▲ ▼ Select **Programm add** to add title to program list.

Confirm with **OK**.

◄ ► Change to program list.

Music List		
	♫ **TITLE1.mp3**	
HDD	📁 Music	Program list
(▶ ◀)	↰..	◻ **TITLE1.mp3**
	◻ TITLE1.mp3	◻ TITLE2.mp3
	◻ TITLE2.mp3	◻ TITLE3.mp3
	◻ TITLE3.mp3	
New Album	◻ TITLE4.mp3	
OK Select	MARKER Mark	TEXT Prog.-List END Close

▲ ▼ Select first title of the program.

▶ or **OK** start playing in the programmed order.

TEXT Change between program and original list.

Options in the menu Program List

▲ ▼ Select title or folder.

OK display menu options.

New album	Create new folder.
Play	Starts playing the titles in the programmed order.
Random	Random play-back order of the titles.
Delete	Deletes selected title/folder/program list.
Move	Move order of the selected title in the program list.
Save	Saves the program list you have just created in the **PROGRAM** folder in the main directory of the hard disc (*HDD*).
Program add	Inserts track/file in the program list.
Load	Load saved program list.
Rename	Change name of program list.

Repeat programmed tracks/files

◼ ◼ ◼ ◼ Select type of repetition during play-back.

TRACK	Repeats the current title.
ALL	Repeats all tracks (*CD*).
FOLDER	(MP3/WMA) repeats all files in the currents folder.

Delete title from the program list

▲ ▼ Select title.

◼ ◼ ◼ ⏍ Mark title. A symbol (✓) appears in front of the title.

OK display menu options.

▲ ▼ Select **Delete**.

Confirm with **OK**.

Change track/file order in the program list

▲ ▼ Select title to be moved.

◼ ◼ ◼ ⏍ Mark title. A symbol (✓) appears in front of the title.

OK display menu options.

▲ ▼ Select **Move**. A blue bar appears in the program list.

▲ ▼ Move bar to desired position.

OK perform movement.

Photo mode

Show photos

The recorder can display JPEG files under the following conditions. The maximum size of a JPEG file may not exceed 4 MB. The total number of files and folders is 1999. The file extension must be ".jpg". The progressive and loss-free compression of JPEG files is not supported.
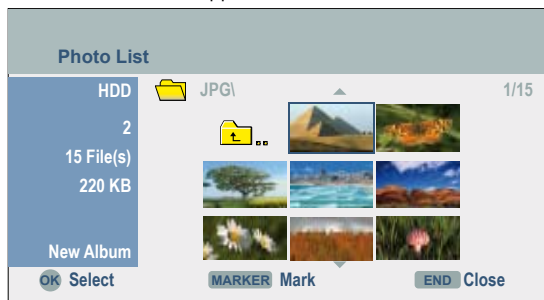
(ASSIST)   Call main menu.

    ◀ ▶ Select **PHOTO**.

    ▲ ▼ Select **HDD** / **DISK** / **Memory Card 1/2**.

Confirm selection with **OK**.

The **Photo List** menu appears on the screen.

    ▲ ▼ ◀ ▶ Select desired photo.

OK display options.

    ▲ ▼ Select **Full Screen**.

Confirm with **OK**. The photo is displayed.

➡ If the thumbnail is displayed in black, this JPEG file cannot be displayed.

OK hide / show menu bar.

Go to previous / next photo with **P-** / **P+**.

    ▲ ▼ Rotate photo 90° to left / right.

(■) (END)   Exit photo display, return to **Photo List** menu.

Options in the "Photo List" menu

|	
New Album	Create new folder.
Open	Open folder and show contents.
Full Screen	Show photo.
Delete	Delete file(s)/folder.
Slide Show	Automatically running photo sequence.
Rename	Change file/folder name.
Move	Move files to folder or data medium (page 36).
Copy	Copy files to folder or data medium (page 36).

Slide Show

    ▲ ▼ Select Slide Show option in the **Photo List** menu.

Confirm with **OK**. The **Slide Show** menu appears.
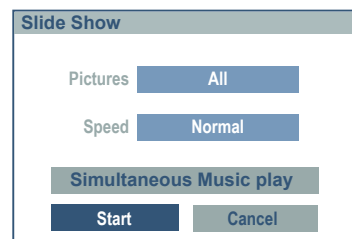
    ▲ ▼ ◀ ▶ Select options and confirm with **OK**.

Pictures Display **Selected** files ✳ or **All** files.

Speed Speed of the slide show: **Slow**, **Normal** or **Fast**.

Simultaneous Music Background music selectable from HDD.

✳ You can put together the slide show and simultaneous music individually by selecting individual files with the MARKR (■) button.

    ▲ ▼ ◀ ▶ Select **Start** button.

OK start slide show.

(II)   Stop slide show.

(▶)   Continue slide show.

(■) (END)   End slide show, return to Photo menu.

Card-Reader mode

About the system
With the digital audio/photo card reader integrated in the recorder, you can show photos taken by digital cameras on the screen with the most common memory cards. MP3/WMA audio files can be played. You can operate the Audio/Photo Card reader with the remote control of the Loewe recorder.
MP3 or JPEG files can be copied from a data-CD/DVD to a memory card or an HDD with sufficient free capacity (page 36).

Compatibility of the memory cards
The memory card must be formatted in FAT 12, 16 or 32 format. Memory cards with other formats cannot be read.

Formats of the memory cards
Memory Stick (MS) .... Memory card 2
Memory Stick Pro ....Memory card 2
MultiMediaCard (MMC) ....Memory card 2
Secure Digital (SD) ....Memory card 2
xD-Picture Card ....Memory card 2
Compact Flash (CF) ....Memory card 1
Micro Drive (MD) ....Memory card 1

To avoid compatibility problems, only use high quality memory cards from brand name manufacturers.

Maximum memory capacity
Compact Flash (CF) .... 4 GB
Micro Drive (MD) .... 5 GB
Memory Stick (MS).. 128 MB
Memory Stick Pro... 1 GB
MultiMediaCard (MMC) .... 1 GB
Secure Digital (SD) .... 1 GB
xD-Picture Card (xD).. 512 MB

➠ When activating the audio/photo card reader, the Recorder should be idle, with no additional screen displays (no menu or Picture In Picture display).

➠ Take care with the card's polarity / tag (see diagram).

➠ Keep memory cards out of reach of children. If swallowed, a doctor is required immediately.

➠ Cards should not be touched with electrical contacts, or the memory may be damaged.

➠ Only one card at a time may be plugged in the memory card slot 1.

➠ For formatting of memory cards, please see "M/C Format" on page 21.

➠ The reading time of the memory card depends on the number of files, the file size or resolution.

➠ If a folder on the memory card contains more than 645 files, not all the files can be played.

➠ The card in the slot1 has priority when cards are inserted in both memory card slots. To activate the card in the left hand memory slot, remove the card from the right hand slot.

➠ The front flap on the recorder cannot be closed while one or both memory cards are plugged in.

Inserting/removing memory cards
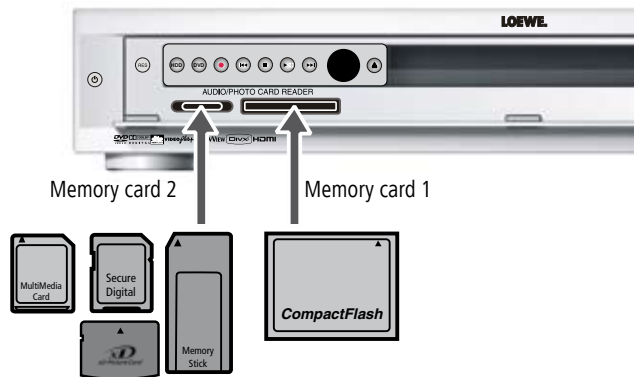
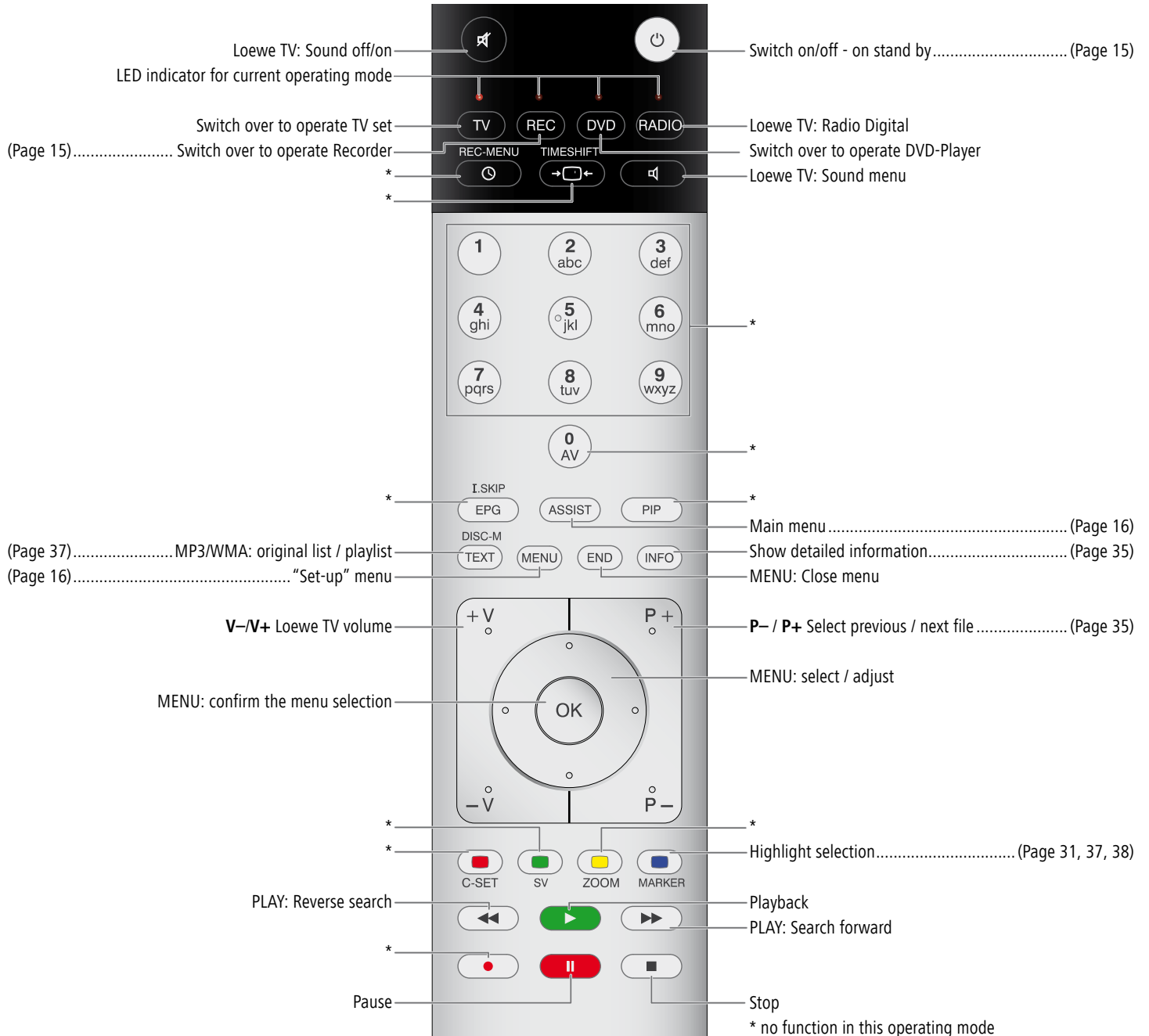| Inserting card | Open the front flap. Insert card until it snaps in. |
| Removing card | Press the card lightly in the middle at the front until it is released (memory card 2) and then remove the card carefully (both memory cards). |

Audio mode
See "Audio mode" on page 35 for operation.

Photo mode
See "Photo mode" on page 38 for operation.

Remote control Assist – Card-Reader operation

Loewe TV: Sound off/on

LED indicator for current operating mode

Switch over to operate TV set

(Page 15) .... Switch over to operate Recorder

*

*

Switch on/off - on stand by .... (Page 15)

Loewe TV: Radio Digital

Switch over to operate DVD-Player

Loewe TV: Sound menu

REC-MENU   TIMESHIFT

1

2 abc

3 def

4 ghi

5 jkl

6 mno

7 pqrs

8 tuv

9 wxyz

0 AV

*

*

*

I.SKIP

EPG   ASSIST   PIP

*

*

DISC-M

(Page 37) .... MP3/WMA: original list / playlist

(Page 16) .... "Set-up" menu

TEXT   MENU   END   INFO

Main menu .... (Page 16)

Show detailed information .... (Page 35)

MENU: Close menu

+ V   P +

V–/V+ Loewe TV volume

MENU: confirm the menu selection

OK

P– / **P+** Select previous / next file .... (Page 35)

MENU: select / adjust

– V   P –

*

*

C-SET   SV   ZOOM   MARKER

*

*

Highlight selection .... (Page 31, 37, 38)

PLAY: Reverse search

Playback

PLAY: Search forward

*

Pause

Stop

* no function in this operating mode

Recording

Recordings on the HDD

Recordings on the internal hard disc (HDD) of the recorder are similar to recording in the VR mode on DVD-RW discs. Ten genres can be assigned to the recordings for easier management (see "Title Name", page 50).

➡ The maximum number of titles on the HDD is 255.

Delayed TV viewing – Timeshift mode

You can interrupt a TV program at any time and continue watching it later with a timeshift.

Set the recorder to the desired signal source as described under "Manual Record" (page 42).

➡ The timeshift operation only starts when the TV option is set to **TV HDD** in the main menu (page 16).

Start recording with **TIMESHIFT** (BUFFERING appears briefly in the display window of the DVD recorder and the **T/S HDD** display lights up). The display for Timeshift appears.

1 — **Play ▸**
10:26   11:26 — 5
    2   3   4

1 Status display for play mode.

2 Timeshift start time.

3 Already elapsed Timeshift time.

4 Current Timeshift time.

5 Timeshift start time plus one hour.

Interrupt recording. Press ▶ again to continue.

INFO   Switch Timeshift display on / off.

➡ The display for Timeshift disappears after 10 seconds. A symbol appears for this in the bottom left of the screen:

The display can be called again with **OK**.

Markers in Timeshift

A marker can be set in Timeshift mode.

Press the blue button briefly to set a mark at a selected point.

Press the blue button long to select the marked scene.

INFO   Exit display.

Clip recording

A program can be saved permanently on the HDD during the Timeshift display.

Search for the starting point with single frame, search and slow motion (page 30).

●   Press at the starting point of the clip to be recorded.

● **CLIPREC ▸**
10:26   11:26

The progress of the recording is shown red in the progress display.

Search for the end point with single frame, seek and slow motion.

●   Press at the end point of the clip to be recorded.

Playing continues. Repeat the procedure for other clips if necessary.

➡ The display for Clip recording disappears after 10 seconds. A symbol appears for this in the bottom left of the screen:

➡ Only the sequences selected by clip recording are saved permanently on the HDD.

➡ Clip recordings are not possible for sequences shorter than five seconds.

Jump to start or end during Timeshift

OK   The display appears.

● **CLIPREC ▸** ◂ **Start Point**   **End Point** ▸   **END**   **Close**
10:26   11:26

◂   Start playing from Timeshift starting point.

▸   Start playing from Timeshift end point.

◂ ▸   Jump back/forward 5 minutes during playing.

EPG   Jump forward 15 seconds during playing.

Exit Timeshift

■   End recording.

A confirmation message is displayed.

◂ ▸   Select **yes**.

Confirm with **OK**. The current TV program is displayed.

Recording

Simultaneous record and display

Playing another medium during recording
Play and record take place independently of each other for DVDs and the integrated HDD. For example, you can record on a DVD or the HDD and at the same time play a movie, photos or music from the respective other memory medium (except Timeshift, DivX).

●	Start recording.
ASSIST	Call main menu.
	◀ ▶ Select **MOVIE, PHOTO, MUSIC.**
	▲ ▼ Select desired memory medium.
	Confirm selection with **OK**.
▶	Start play-back.

The recording is continued during play-back from the other data medium.

➡ Some functions (e.g. simultaneous play and recording when dubbing) are not possible.

Time Slip
HDD
Time Slip enables delayed playing of the title while it is being recorded.

●	Start recording.
▶	Start play-back.

Playing starts whilst recording continues.

❚❚ ▶ ◀◀ ▶▶	◀ ▶ You can navigate during play-back with single frame, seek and slow motion.
■	End play and display current recording position.

➡ Playing can start at the earliest 15 seconds after starting the recording.

➡ This function is not available in the DVD recording mode.

Manual Record
Proceed as follows to make video recordings.

Switch on the recorder. Insert a rewritable disc for DVD recordings. If you insert an empty disc, the recorder will initialise it automatically first (page 26).

If required, select **Rec mode Set** (page 25)

ASSIST	Call main menu.
	◀ ▶ Select **TV.**
	▲ ▼ Call **TV HDD** or **TV DVD**.

Confirm selection with **OK**. A status information to the selected memory medium is displayed briefly.

Switch the recorder input to the signal source you wish to record from with the number buttons, the **P+** / **P-** buttons or the **0 AV** button. The station number, name and current sound status are displayed on the screen.

●	Then select the sound channel ("TV Audio" page 25).

Start recording. (**REC** lights up in the display window of the recorder). The recording starts immediately and continues until the disc is full or you interrupt the recording.

10M Rec
80H 19M Free

●	During recording. Show remaining recording time. By pressing the button again the maximum recording time is limited to a fixed period of time. Every additional press of a button extends the recording time by 10 – 30 minutes to a maximum 4 hours.
❚❚	Interrupt recording. Press again to continue.
INFO	Show status of recording.
■	End recording.

➡ If the recorder is disconnected from the mains during recording (or in case of a power failure) or the recording is interrupted manually with the On-Off button, the whole recording is lost.

Recording

Timer Recording

This recorder can be programmed to record up to seven programs within one month. For programmed recordings the timer must be informed which signal sources (TV stations or from AV devices) are to be recorded and the respective start and stop time.

Switch on the recorder. Insert a rewritable disc for DVD recordings.

🕐 Call the **Timer Record** menu.

Timer Record					SQ	80H 9M Free	
Media	PR	Date	StartTime	EndTime		Repeat	VPS/PDC
HDD	31	8/12 Fr	20:15	22:00		Once	Off
	S23 K1		Duration : 105 M				
REC-MENU	Timer Record List		OK Enter			END Close	

Media   Select the memory medium for the recording.

PR   Select the stations or an external input.

Date   Select the data up to one month in advance.

Start time   Defines the start time for the recording.

End time   Defines the end of the recording.

Repeat   Select repetition (once, daily (Mo-Fr), weekly).

PDC   The VPS/PDC system adapts the recording time automatically to changes in the program start time for recordings via the integrated tuner. Set the VPS/PDC time and the date of the program you want to record. You will find these in your TV guide or in the teletext.

Enter the necessary information for your timer recording(s).

◀   ▶   Move the cursor to the previous / next column.

▲   ▼   Edit the setting at the current cursor position.

OK saves timer data.

END   Exit **Timer Record** menu without saving.

🕐   Call **Timer Record List** menu.

⏻   Switch recorder to standby.
■   End recording.

A confirmation message is displayed.

Confirm with **OK.**

➠ The recorder must be in standby mode for timer recording to start automatically.

➠ Please note that not every station operates with VPS/PDC.

➠ The starting time for the recording must be at least 3 minutes into the future. The recorder switches on about 2 minutes before the programmed time and runs up to about 2 minutes after the programmed time.

➠ The current time and the current date must be set in the recorder (page 20).

➠ The energy saving function must be switched off (page 21).

➠ Select the audio channel for two-language TV recordings in the "TV Rec Audio" menu (page 25).

➠ In standby mode the Timer symbol lights up in the display window when a timer recording is programmed (page 4).

Timer recordings with the ShowView® system

Programming timer recordings with this system is child's play. Most television schedule publications include the ShowView code numbers along with the information about the programmes. So when you want to make a timer recording of a programme, you only need to key in the appropriate ShowView code number. The date, start time, end time and station are set automatically. You only need to set the recording quality and specify whether it is to be a one-off or repeated recording. You can save up to seven timer programmes on the recorder.

🔴🟢🟡🔵   Select **ShowView** menu with the green button.

ShowView							
Number							
0-9 Input	OK Enter		MENU Delete			END Close	
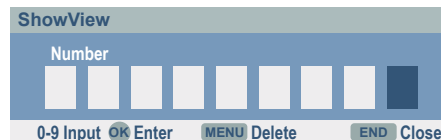
Enter the ShowView number.

MENU   Delete input errors.

Confirm with **OK**. The **Timer Record** menu appears.

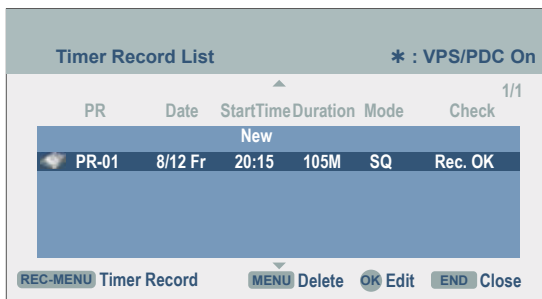Check and, if necessary, correct the settings as described under "Timer Recording" (this page).

Recording

Timer Record List

Checking the timer programming

Press twice to call the **Timer Record List** menu.

PR	Date	StartTime	Duration	Mode	Check

Timer Record List ✳ : VPS/PDC On

1/1

New

| PR-01 | 8/12 Fr | 20:15 | 105M | SQ | Rec. OK |

REC-MENU Timer Record   MENU Delete   OK Edit   END Close

Editing a timer programming

▲ ▼ Select timer recording.

OK edit selected programming.

Delete selected programming.

or **New** opens "Timer Record" menu (page 43).

Recording conditions

With the programmed timer the recorder does not record under the following conditions:

- No disc or a non-rewritable disc inserted. The recording is then made on the HDD.
- The power supply is interrupted or the recorder is not ready.
- There are already 99 recorded titles on the disc.
- The starting time for the recording is less than three minutes into the future.

You cannot program the timer under the following circumstances:

- A recording is already in progress.
- Seven timer recordings have already been programmed.

Multiple overlapping timer programs:

- The earlier recording takes priority.
- When the earlier recording ends, the later one will start.

➠ If the disc is damaged, it is possible that the recording will not be done properly. Even if the "Rec. OK" message appears in the "Check" field, this is not necessarily true in this case.

Record from external sources

You can record from an external source (e.g. SAT-TV set, SAT receiver, camcorder or video recorder).

The device you want to record from must be connected to the recorder properly. You will find further information on page 13.

Switch on the recorder and set the desired memory medium under TV in the main menu. Insert a rewritable DVD if necessary.

Select source.

AV1 EURO AV1 AUDIO VIDEO to the rear of the housing.
AV2 EURO AV2 DECODER to the rear of the housing.
AV3 AUDIO AV IN 3 / VIDEO IN 3 to the rear of the housing.
AV4 AUDIO IN 4 / VIDEO IN 4 / S-Video IN to the front of the housing.
DV DV IN to the front of the housing.
PR-nn Integrated tuner on station nn.

Set the recording quality (page 25).

For further operation see "Manual Record" on page 42 or "Timer Recording" on page 43.

➠ If you operate this recorder with a Loewe Flat-TV set, the recording wizard of the TV set controls the recording via Digital Link Plus. This has the advantages of easier operation, especially when recording digital stations. You will find further information in the TV user guide under "Operation of additional equipment – Timer recordings".

➠ If your source is copy-protected by Copy-Guard, you cannot use this recorder to record from it. Read the copyright notes on page 10.

Digital Video

General "DV" information

With DV (Digital Video, also known as i.LINK), you can use a DV cable as the audio, video, data and control signals input / output to connect a camcorder that has DV to this recorder. The i.LINK interface complies with the IEEE 1394-1995 standard. "i.LINK" and the "i.LINK" logo are trademarks.

- This recorder is only compatible with "DV 25" format camcorders. Digital satellite tuners and digital VHS video recorders are not compatible.
- You cannot connect more than one DV cam-corder at a time to this recorder.
- You cannot control this recorder with external devices that are connected via the **DV IN** socket (incl. two Recorders).
- The camcorder connected via the **DV IN** socket cannot necessarily, in every case, be controlled.

Recording

- Digital camcorders can usually record audio as 16 bit/48 kHz stereo or twin stereo tracks with 12 bit/32 kHz. This recorder can only record one stereo audio track. Set "DV Rec Audio" as required or Audio 1 or Audio 2 (page 25).
- The sampling rate of the digital sound input to the **DV IN** socket must be either 32 or 48 kHz (not 44.1 kHz).
- Recording may suffer from interference if the camcorder stops playing back, if a part of the tape that has not been recorded on is played back, if the electricity supply to the camcorder is cut off, or if the DV cable comes out.
- When "DV Rec Audio" is set to "Audio 2" and there is no Audio 2 signal, "DV Audio" will automatically be set to "Audio 1".

DV messages

When you are using the **DV IN** socket, the following messages may appear on the screen.

Not connected to camcorder: The camcorder is not properly connected, or the camcorder is switched off.

Too many devices connected: This recorder's DV socket only supports the connection of one camcorder.

Check tape: There is no tape in the device that is connected.

Incompatible device: The recorder is unable to control the camcorder.

Information is being reloaded: The camcorder is updating data for DV.

Camera mode: The camcorder is set to camera mode.

Troubleshooting

If you are not receiving images and/or sound via the DV IN socket, check the following:

- The DV cable must be properly connected.
- Switch off the camcorder that is connected, and switch it back on.
- Tune the audio input in to the recorder.

➡ This recorder cannot necessarily control every camcorder that is connected to it.

Recording from a digital camcorder

You can record from a camcorder that is connected to the **DV IN** socket in the recorder's front panel. You can use the recorder's remote to control a cam-corder and the recorder. Before recording, make sure that the audio input has been set up for the DV IN socket (page 25).

The digital camcorder must be connected to the DV IN socket at the front of the housing. Further information can be found on page15.

You can choose from between Audio 1 (original audio) and Audio 2 (overdubbed audio).

The DV input is set using the "DV Rec Audio" submenu of the main menu (page 25).

0 AV Select DV input.

"DV" is displayed in the display window of the recorder and on the screen.

Search the position on the camcorder tape from which you want to record.

For optimum results, interrupt play-back of the camcorder at the point from which you want to record. Depending on the camcorder you can operate the functions **STOP**, **PLAY** and **PAUSE** with this recorder.

● Start recording.

The recording is stopped automatically when the recorder detects no signal.

❚❚ Interrupt recording. Press again to continue.

■ End recording.

➡ You cannot use the recorder to control the camcorder while recording is in progress.

➡ In Video mode, the last frame of the recording is shown on the screen for a short time after recording has ended.

➡ For timer recordings to work properly on this recorder, the digital camcorder should be switched on and operational.

Edit recordings

Menu Title List and Chapter List

Under the Title List menu, video contents on unfinalised DVDs in VR mode and video contents on the internal HDD can be edited. The available edit functions are dependent on whether video on a DVD in VR mode or on the HDD or whether original contents or playlists are edited.

DVD-RW discs in VR-mode can be edited in two ways. Original contents of the disc can be edited directly or a playlist can be created and edited. The playlist does not change the contents of the disc but controls its play-back.

The editing of recordings on the HDD is the same as editing of original contents of a DVD-RW in the VR mode. Similar commands for deleting and naming titles as well as a fine setting of the chapter contents within the titles are available.

➡ If the Title List menu of the HDD is displayed during recording, some titles may have a marker. These titles have been recorded with a different input setting to the current recorder setting. These titles cannot be played during the recording.

|	
■	Pause playing.
TEXT	Select **Title List** menu.
▲ ▼ ◀ ▶	Select title.
TEXT	Change between Original and Playlist menu when editing in DVD VR mode.
	The available options are displayed at the left. The titles (or chapters) on the DVD or HDD are displayed on the right of the screen. The thumbnails can be edited. (See "Change title thumbnail" on page 47).
INFO	Information about the selected title in the Title List menu.
END	Close menu.
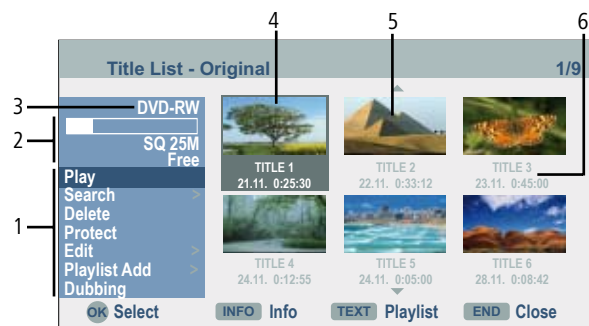
1. Different menu options are displayed depending on the memory medium.

Combine	Connects two titles or chapters as one (page 51).
Delete	Deletes the title or the chapter (page 49).
Delete part	Deletes part of the title (page 49).
Divide	Divides a title into two (page 52).
Dubbing	Copies the title to another data medium (page 55).
Full Play	Starts playing the selected title including hidden chapters.
Hide	Hides (shows) the selected title or the chapter (page 53).
Move	Moves a chapter in the Chapter List / Playlist menu to another position (page 53).
Play	Starts playing the selected title or chapter. Hidden titles and chapters on the DVD+R/RW are not played.
Playlist Add	Adds the title or chapter to a new playlist (page 47).
Protect	Prevents accidental recording, editing or deleting of a title (page 53).
Title Name	Edits the title name; assignment to genre (page 50).
Search Chapter	Display Chapter List of title (page 50).
Search Time	Time at which title starts playing (page 50).
Sort	Sorts the title list according to date, title or genre (page 51).
Title	Displays the title list of the chapter.
Undo /	Undo last deletion or
Redo	Redo (page 51).

2. Displays the recording quality, free memory space and a progress display of the elapsed playing time.

3. Name of the current memory medium.

4. Currently selected title.

5. Thumbnail.

6. Shows the title name, the recording date and the length of the recording.

Edit recordings

Edit Original and Playlist

Title, Chapter and Parts

Titles of the original content of the disc contain one or more chapters. When inserting a title in the playlist, all the chapters within this title also appear. That means that chapters in the playlist behave exactly the same as chapters on a DVD-Video disc. Parts are sequences of the original or playlist titles. Parts can be added to or deleted from the Original and Playlist menu. When adding a chapter or title to the Playlist, a new title is created consisting of a sequence (= chapter) of an original title. When deleting, part of the title of the Original or Playlist menu is deleted.

➡ If you use the Delete, Edit and Move functions, the start and end frames may not correspond exactly with the start and end points. A short pause may be made between edits during play-back of the playlist. This is not a malfunction.

Original and Playlist

-RW VR

The terms Original and Playlist are used in this user guide for the actual contents and the edited contents.

Original	The contents of the actual recordings on the disc.
Playlist	On DVDs a "Playlist" of the contents to be played and the play times is created for editing. The recorder plays the disc according to the playlist.

Add chapter markers

HDD -RW VR +RW +R

Chapters can be created by inserting chapter markers at the desired positions within a title.

🔴🟢🟡🔵 **C-SET** During recording or playing at the position at which a new chapter is to be inserted.

A chapter marker symbol appears on the screen.

➡ Chapter markers are inserted automatically at regular intervals. You can change these intervals in the "Recording" menu (see "Auto Chapter" on page 25).

Create new Playlist

-RW VR

Use this function to add an original title or a chapter to the playlist. The whole title is added to the playlist (you can delete parts you will not need later; see "Delete title/chapter from Original/Playlist" on page 49).

The title appears in the playlist together with the chapter markers of the original. When adding other chapter markers to the original later, however, these are not copied automatically to the titles of the playlist. You can add a maximum 999 chapters to a disc. To add only one chapter of a title, read "Add title/chapter to Playlist" on page 48.
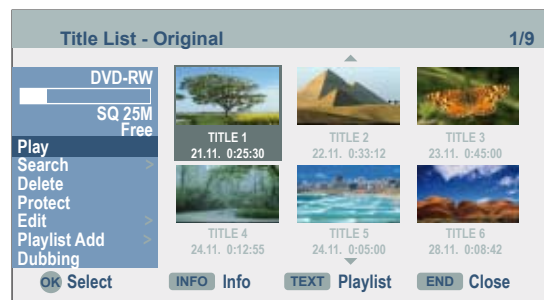
TEXT   Select Title List/Chapter List Original menu.
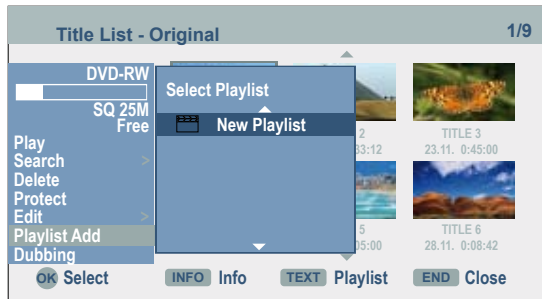
▲ ▼ ◀ ▶   Select title/chapter.

Confirm with **OK**.

The available options are displayed at the left.

Title List - Original　　　　　　　　　　1/9

DVD-RW		
SQ 25M Free		
Play	TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
Search		
Delete		
Protect		
Edit	TITLE 4 24.11. 0:12:55	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
Playlist Add		
Dubbing		

OK Select   INFO Info   TEXT Playlist   END Close

▲ ▼   Select **Playlist Add**.

Confirm with **OK**.

Edit recordings

DVD-RW
SQ 25M
Free
Select Playlist
New Playlist
Play
Search
Delete
Protect
Edit
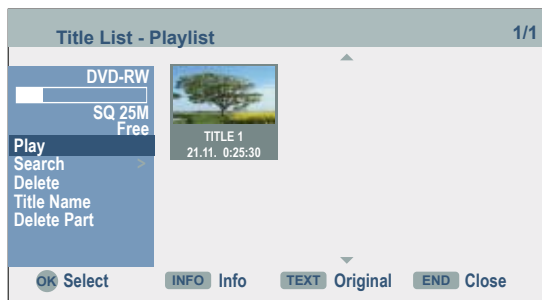Playlist Add
Dubbing
OK Select   INFO Info   TEXT Playlist   END Close

▲ ▼   Select **New Playlist.**

Confirm with **OK**.

The new title appears in the updated Playlist. All chapters of the title are added to the Playlist.
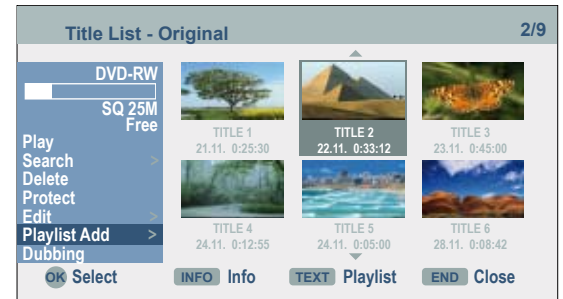
Title List - Playlist 1/1

DVD-RW
SQ 25M
Free
Play
Search
Delete
Title Name
Delete Part

TITLE 1
21.11. 0:25:30

OK Select   INFO Info   TEXT Original   END Close

Add title/chapter to the Playlist

-RW VR
You can add an original title or a chapter to a Playlist title even if it is already registered.

▲ ▼ ◄ ►   Select a title/chapter in the Title List Original or Chapter List Original menu which is to be inserted in the Playlist.

Confirm with **OK**.

The available options are displayed at the left.

Title List - Original 2/9

DVD-RW
SQ 25M
Free
Play
Search
Delete
Protect
Edit
Playlist Add
Dubbing
TITLE 1
21.11. 0:25:30
TITLE 2
22.11. 0:33:12
TITLE 3
23.11. 0:45:00
TITLE 4
24.11. 0:12:55
TITLE 5
24.11. 0:05:00
TITLE 6
28.11. 0:08:42
OK Select   INFO Info   TEXT Playlist   END Close

▲ ▼   Select **Playlist Add**.

Confirm with **OK**.

Title List - Original 1/9

DVD-RW
SQ 25M
Free
Select Playlist
New Playlist
TITLE 1
Play
Search
Delete
Protect
Edit
Playlist Add
Dubbing
OK Select   INFO Info   TEXT Playlist   END Close
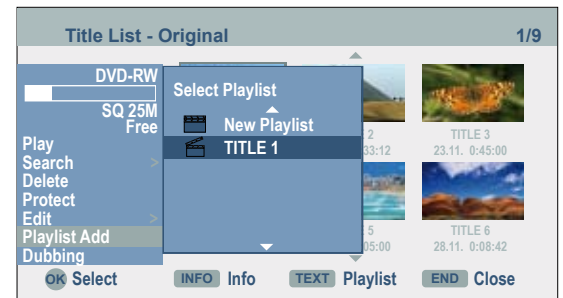
▲ ▼ ◄ ►   Select Title List Playlist in which a title or chapter is to be inserted.

Confirm with **OK**.

The added chapters are displayed in the menu (**Search** - **Chapter**) **Chapter List** - **Playlist**.

Chapter List - Playlist 1/2

TITLE 1
21.11. 0:25:30

OK Select   TEXT Original   END Close
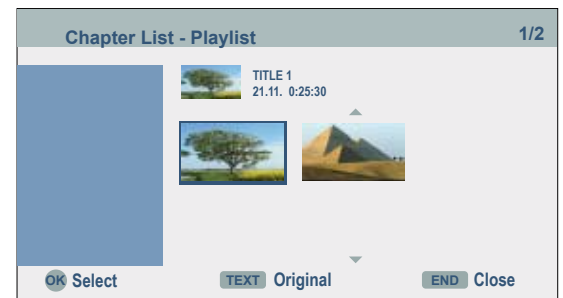
END   End editing of the Playlist.

Edit recordings

Delete title/chapter from Original/Playlist

When you delete a title or a chapter from the playlist, you only remove the title/chapter from the playlist.

When you delete a title or chapter from the original list, title/chapter are deleted from the disc and the time remaining for recording is prolonged again. Titles or chapters deleted from the original are also deleted from the playlist.

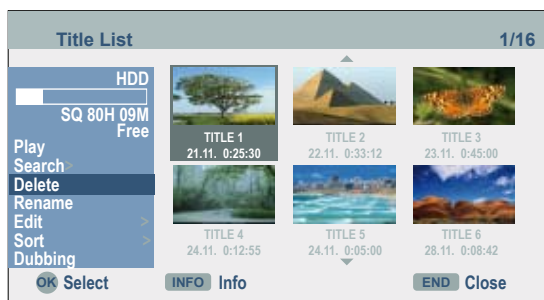➥ You cannot delete chapters with a playing time of less than 5 seconds.

⏶ ⏷ ◄ ► Select a title/chapter in the menu **Title List - Original** or **Chapter List - Original** which is to be deleted from the playlist.

Confirm with **OK**.

The available options are displayed at the left.

⏶ ⏷ Select **Delete**.

Example: **Title List** (*HDD*):

Title List		1/16
HDD		
SQ 80H 09M Free		
Play	TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
Search		
Delete		
Rename		
Edit	TITLE 4 24.11. 0:12:55	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
Sort		
Dubbing		
OK Select	INFO Info	END Close

Confirm with **OK**. A delete prompt is displayed.

⏶ ⏷ Select **yes**.

Confirm with **OK**. The chapter or title is deleted.

OK displays the updated menu.

END End editing.

➥ For DVD+R/DVD+RW recordings the deleted title is renamed after "Deleted Title".

➥ In case of fast deleting of more than two titles in succession, the titles are combined as one.

➥ When deleting a title or chapter, the remaining recording time is increased on the DVD+RW only by the size of the title which was deleted at the end.

Delete part

HDD -RW VR

You can delete a part which you no longer want in the title.

⏶ ⏷ ◄ ► Select title in the Title List menu.
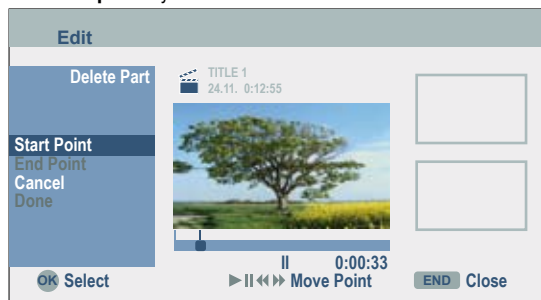
Confirm with **OK**.

The available options are displayed at the left.

⏶ ⏷ ► Select **Edit** – **Delete Part**.

Confirm with **OK**.

The **Edit** menu (Delete Part) is displayed.

The **Start point** symbol is marked.

Edit		
Delete Part	TITLE 1 24.11. 0:12:55	
Start Point		
End Point		
Cancel		
Done		
OK Select	▶II ◄◄ ►► Move Point	II 0:00:33	END Close

◄ ► Start play-back and search the start point with single frame, search and slow motion.

OK at the start point of the clip to be deleted.

The **End point** symbol is marked.

◄ ► Search the end point with single frame, search and slow motion.

Confirm with **OK**.

➥ Other parts can be deleted in recordings on the HDD. Select **Next Part** in the menu, press **OK** and repeat the steps described above.

⏶ ⏷ End editing with **Done**.

Confirm with **OK**. A delete prompt is displayed.

◄ ► Select **yes**.

Confirm with **OK**. The selected part is deleted from the title.

◄ ► Select **Cancel** to reject the editing.

Edit recordings

Title Name

You can assign names to the titles of Original or Playlist. The names may have a maximum 32 characters. A genre can be added to the name (*HDD*).

▲ ▼ ◀ ▶ Select title to be renamed in the **Title List** menu.

Confirm with **OK**. The available options are displayed at the left.

▲ ▼ Select **Title Name/Rename**.

Confirm with **OK**.

The **Keyboard** menu is displayed.

Title List										1/16

ABC|

◀ **Alphabet Capital** ▶

1	2	3	4	5	6	7	8	9	0
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	Æ	Ç	Đ	Ø
'	´	^	~	"	°	Þ	ß	µ	.

Docu **Edu** **News** **Drama** **Animat.** **Sports** **Movie** **Show** **AV In** **Clear**

Genre   **Space** **Delete** ◀ ▶ **OK** **Cancel**

Explanations of the options:

Alphabet Capital	Switches the keyboard to capitals.
Alphabet Small	Switches the keyboard to small letters.
Symbol	Switches the keyboard to special characters.
ABC...123	Inserts the selected character at the cursor position (shaded grey for special characters).
OK	Save setting and exit.
Cancel	Exit setting without saving.
Space	Inserts a space at the cursor.
Delete	Deletes characters to the left of the cursor.
◀ ▶ ▲ ▼	Moves the marker in the selection.
▶	Inserts a space at the cursor.
❚❚	Deletes the characters to the right of the cursor.
■	Deletes the character to the left of the cursor.
P+ / P-	Moves the cursor to the left or right.
Genre	Assigns the title to a genre (*HDD*).
(TEXT), (INFO)	Switches the keyboard back and forth among capitals, small letters and synbols.

Select the OK button and save with **OK**.

➠ On DVD-R-, DVD+R- or DVD+RW discs, the entered name is only displayed after finalisation.

Select title start point

HDD -RW VR -RW Video +RW +R -R
You can select the start point of the title.

▲ ▼ ◀ ▶ Select title in the **Title List** menu.
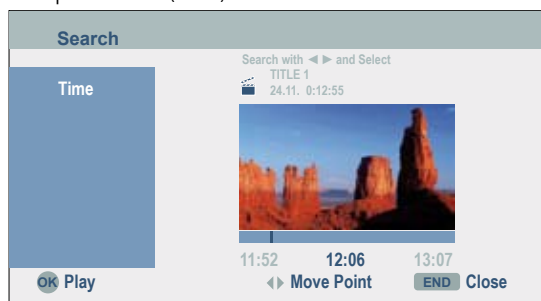
Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Search** - **Time**.

Confirm with **OK**.

The **Search** menu is displayed on the screen.

Example: Title List (*HDD*):

Search	
Time	Search with ◀ ▶ and Select TITLE 1 📼 24.11. 0:12:55
	11:52 **12:06** 13:07
OK **Play**	◀▶ **Move Point** END **Close**

◀ ▶ Select the desired start point.

The time changes in one minute steps.

◀ ▶ Keep pressed to increase the time in steps of 5 minutes.

OK to start at the desired point.

Select chapter

HDD -RW VR -RW Video +RW +R -R
You can select any chapter from a title.

▲ ▼ ◀ ▶ Select title in the **Title List** menu.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Search** - **Chapter**.

Confirm with **OK**.

The **Chapter List** menu is displayed.

▲ ▼ ◀ ▶ Select desired chapter.

OK to start at the selected point.

Edit recordings

Sorting

HDD

With this function the title list can be sorted by date, title or genre for quicker retrieval of titles.

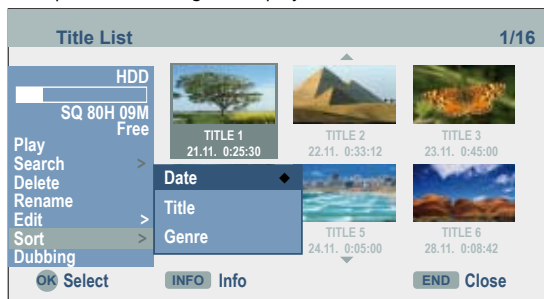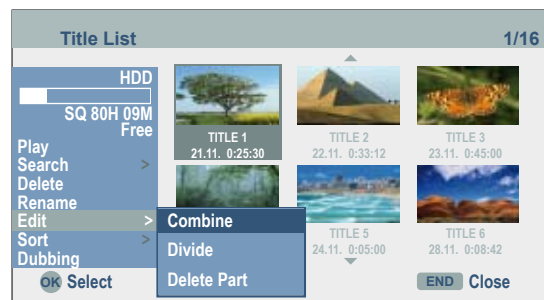▲ ▼ ◀ ▶ Select title in the Title List menu of the HDD.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Sort**.

Confirm with **OK**.

The options for sorting are displayed.

Title List		1/16
HDD		
SQ 80H 09M Free		
Play	TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
Search >	Date ◆	
Delete	Title	
Rename		
Edit >	Genre	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
Sort >		
Dubbing		
OK Select	INFO Info	END Close

▲ ▼ Select **Date, Title** or **Genre.**

OK Display menu with selected sorting.

Undo/redo deletion

-RW VR

Errors when deleting can be undone. Only the last action (i.e. one deletion) can be undone.

▲ ▼ Select **Edit** - **Undo**.

Confirm with **OK**.

It makes no difference whether you are in the menu screen. The last deletion is undone.

➠ After ejecting the disc or switching to standby mode no actions can be undone.

➠ A deletion can still be undone after exiting the menu.

➠ With Redo the last undone action can be redone.

Combine titles

HDD

With this function two adjacent original titles on the HDD can be united.

➠ This function is not available if only one title is saved on the HDD.

➠ No titles can be combined of there are more than 60 titles on the HDD.

▲ ▼ ◀ ▶ Select first title of the two titles to be joined in the **Title List** menu.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Edit** - **Combine**.

Confirm with **OK**.

Title List		1/16
HDD		
SQ 80H 09M Free		
Play	TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
Search >		
Delete		
Rename		
Edit >	Combine	
Sort >	Divide	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
Dubbing	Delete Part	
OK Select		END Close

▲ ▼ ◀ ▶ Select second title of the two titles to be joined.

Confirm with **OK**.

A confirmation message is displayed.

▲ ▼ Select **yes**.

Confirm with **OK**. The updated **Title List** menu is displayed.

Edit recordings

Divide title

HDD +RW

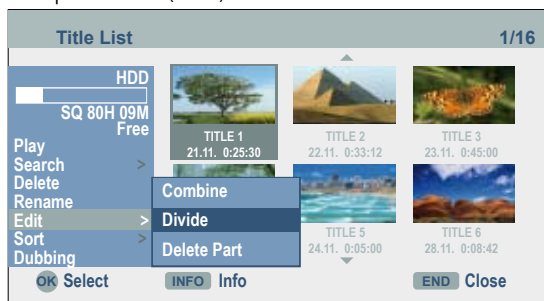With this function you can divide a title into two new titles.

▲ ▼ ◀ ▶ Select title to be divided in the **Title List** menu.

Confirm with **OK**.
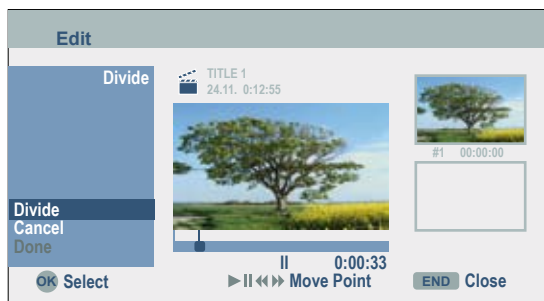
The available options are displayed at the left.

▲ ▼ Select **Edit** - **Divide**.

Example: Title List (*HDD*):

Confirm with **OK**.

The menu **Edit** - **Divide** is displayed and the **Divide** option is marked.

◀ ▶ Seek the start point for dividing the title with single frame, seek and slow motion.

▲ ▼ Select **Divide**.

Confirm with **OK**.

▲ ▼ Select **Done**.

Confirm with **OK**. The title is divided into two new titles. This process may last up to 4 minutes.

➠ Division points must be at least three seconds apart.

Combine chapters

HDD   -RW VR   +RW +R

With this function two adjacent playlist or original chapters can be united.

➠ This function is not available if the title only contains one chapter.

▲ ▼ ◀ ▶ The second of the two chapters to be united should be selected in the (**Title List** - **Search** - **Chapter**) **Chapter List** menu.

Confirm with **OK**.

The available options are displayed at the left.
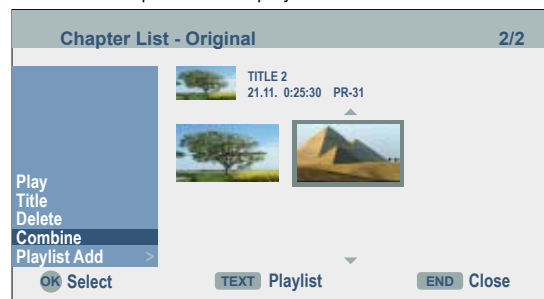
▲ ▼ Select **Combine**. The combination indicator is shown between the two chapters which you can join.

Confirm with **OK**.

Edit recordings

Move Playlists Chapters

-RW VR

With this function the play-back order of the chapters within Playlists can be edited.

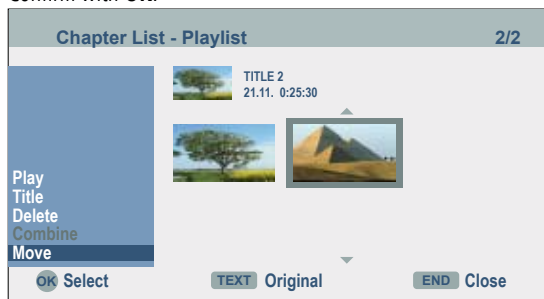➠ This function is not available if only one chapter is available.

▲ ▼ ◀ ▶ Select chapter in the **Chapter List**-**Playlist** menu.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Move**.

Confirm with **OK**.

Chapter List - Playlist	**2/2**
	TITLE 2
	21.11. 0:25:30
Play	
Title	
Delete	
Combine	
Move	
OK Select	**TEXT** Original **END** Close

▲ ▼ ◀ ▶ Select position of chapter.

Confirm with **OK**. The updated menu is displayed.

Hide title/chapter

+RW +R

Playing of selected chapters or titles can be skipped by the disc.

▲ ▼ ◀ ▶ Select the chapters to be hidden in the **Title List** or **Chapter List** menu.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Hide**.

Confirm with **OK**. The thumbnail of the chapter or title is hidden.

➠ When selecting, a hidden chapter or title can be shown in the Title List or Chapter List menu by selecting the **Edit** - **Display** option in the menu. Then the chapter or title is displayed.

Example: Title List (*DVD+RW*):

Title List			**1/15**
DVD+RW			
SQ 25M			
Free			
Play	**TITLE 1**	**TITLE 2**	**TITLE 3**
Full Play	**21.11. 0:25:30**	**22.11. 0:33:12**	**23.11. 0:45:00**
Search	**Title Name**		
Delete	**Divide**		
Protect			
Edit	**Hide**		
Dubbing		**TITLE 5**	**TITLE 6**
		0:05:00	**28.11. 0:08:42**
OK Select	**INFO** Info		**END** Close
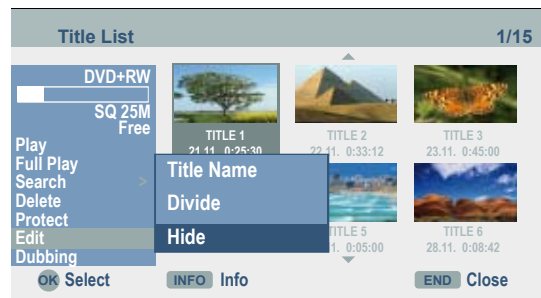
Protect title

-RW VR *+RW* *+R*

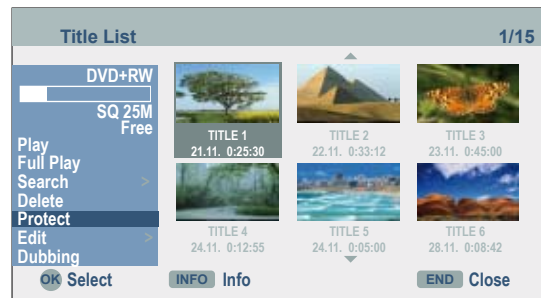This function prevents accidental overwriting, editing or deleting of a title.

Select **Title List** menu.

▲ ▼ ◀ ▶ Select the title to be protected.

Confirm with **OK**.

The available options are displayed at the left.

▲ ▼ Select **Protect**.

Title List			**1/15**
DVD+RW			
SQ 25M			
Free			
Play	**TITLE 1**	**TITLE 2**	**TITLE 3**
Full Play	**21.11. 0:25:30**	**22.11. 0:33:12**	**23.11. 0:45:00**
Search			
Delete			
Protect			
Edit	**TITLE 4**	**TITLE 5**	**TITLE 6**
Dubbing	**24.11. 0:12:55**	**24.11. 0:05:00**	**28.11. 0:08:42**
OK Select	**INFO** Info		**END** Close

Confirm with **OK**. The lock marker appears in the title thumbnail.

➠ If you select a title which is already protected in the Title List menu, this can be enabled by selecting Unprotected in the options of the Title List menu. Then the title can be edited and deleted.

Dubbing

Before dubbing

With the dubbing function of this recorder you can

- create backup copies of important recordings on the HDD on a DVD.
- Create a DVD copy of a recording on the HDD for playing on other players.
- Copy movies from a DVD to the HDD for editing.
- Copy edited movies from the HDD to a DVD.

➠ Titles which are shorter than 5 seconds cannot be copied from HDD to DVD.

Restrictions when dubbing

Some movies have a single copy protection: These movies cannot be copied to HDD or DVD.
Single copy protection movies are recognizable by display of the disc information with **INFO** during play-back.

- Signals in NTSC format from the analog or the DV inputs canot be recorded correctly with this recorder.
- Video signals in SECAM format (from the integrated TV tuner or analog inputs) are recorded in PAL format.
- Please also see the hints for recording on page 10.

PLEASE NOTE THAT NOT EVERY HIGH DEFINITION DEVICE IS FULLY COMPATIBLE WITH THIS PRODUCT AND THAT ARTEFACTS MAY OCCUR WHEN DISPLAYING THE PICTURE. IF 625 PROGRESSIVE SCAN PICTURE DISPLAY IS FAULTY, WE RECOMMEND SETTING THE CONNECTION TO THE "STANDARD DEFINITION" OUTPUT. PLEASE CONTACT OUR CUSTOMER SERVICE IF YOU HAVE ANY QUESTIONS ABOUT THE COMPATIBILITY OF THE TV WITH THIS RECORDER (page 66).

High-Speed dubbing (maximum 12x)

Dubbing between DVD and HDD is a full digital process and therefore takes place without loss of picture and sound quality. The dubbing process can take place at high speed. When dubbing from HDD to DVD, the dubbing speed depends on the recording quality and the DVD disc used.

Minimum duration for high-speed dubbing

The following table contains the respective minimum duration for dubbing a two-hour movie recorded in SQ mode from HDD to DVD.

Disc type	Disc speed	Dubbing time (recording speed)
DVD-R / DVD+R	16x	6.5 min. (12x)
DVD-R / DVD+R / DVD+RW	8x	8 min. (8x)
DVD-RW	6x	12 min. (6x)
DVD-R / DVD+R DVD-RW / DVD+RW	4x	13 min. (4x)
DVD+R / DVD+RW	2.4x	21 min. (2.4x)
DVD-R / DVD-RW	2x	25 min. (2x)

➠ The specified times are approximate values.

➠ The actual dubbing speeds may vary with different disc recordings.

➠ Even 4x-/6x-/8x-/16x¬compatible discs may not be dubbed at maximum speed.

➠ High-speed dubbing is not always possible with discs initialized on another device.
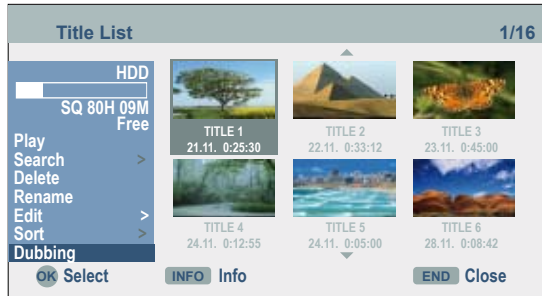
Dubbing

Dub from HDD to DVD

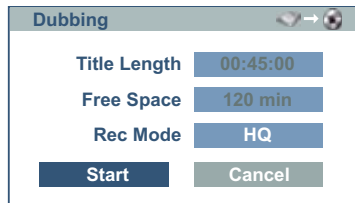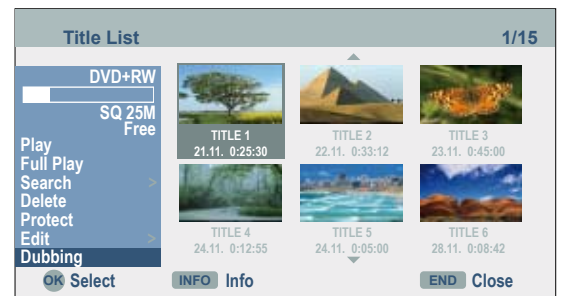▲ ▼ ◀ ▶   Select title in the **Title List** (*HDD*) menu.

Confirm with **OK**.

The available options are displayed at the bottom left.

Title List   1/16

HDD
SQ 80H 09M
Free

Play
Search   >
Delete
Rename
Edit   >
Sort   >
Dubbing

TITLE 1   TITLE 2   TITLE 3
21.11. 0:25:30   22.11. 0:33:12   23.11. 0:45:00

TITLE 4   TITLE 5   TITLE 6
24.11. 0:12:55   24.11. 0:05:00   28.11. 0:08:42

OK Select   INFO Info   END Close

▲ ▼   Select **Dubbing**.

Confirm with **OK**. The **Dubbing** menu appears.

Dubbing

Title Length   00:45:00
Free Space   120 min
Rec Mode   HQ

Start   Cancel

▲ ▼ ◀ ▶   Select **Rec Mode** (**HQ**, **SQ**, **LQ**, **EQ**, **AUTO**).

▼   Select **Start** button.

OK start dubbing.

20%

Cancel dubbing.

➠ The recording time in **Fast** mode may vary depending on the amount of source data.

➠ When aborting the dubbing in **Fast** mode the recording is halted and all the data recorded up to this point are lost.

➠ The **Fast** mode is not possible if there is not enough memory space remaining on the disc.

➠ The **Fast** mode is not possible for edited titles on the HDD and clip recordings.

Dub from DVD to HDD

▲ ▼ ◀ ▶   Select title in the **Title List** (*DISC*) menu.

Confirm with **OK**.

The available options are displayed at the bottom left.

Title List   1/15

DVD+RW
SQ 25M
Free

Play
Full Play
Search   >
Delete
Protect
Edit   >
Dubbing

TITLE 1   TITLE 2   TITLE 3
21.11. 0:25:30   22.11. 0:33:12   23.11. 0:45:00

TITLE 4   TITLE 5   TITLE 6
24.11. 0:12:55   24.11. 0:05:00   28.11. 0:08:42

OK Select   INFO Info   END Close

▲ ▼   Select **Dubbing**.

Confirm with **OK**. The **Dubbing** menu appears.

Dubbing

Title Length   01:45:00
Free Space   2473 min
Rec Mode   HQ

Start   Cancel

▲ ▼ ◀ ▶   Select **Rec Mode** (**HQ**, **SQ**, **LQ**, **EQ**, **Fast** , **AUTO**).

▼   Select **Start** button.

OK start dubbing.

20%

Cancel dubbing.

➠ Dubbing may not always be possible depending on the conditions of the recording device or the disc itself.

➠ When aborting the dubbing in **Auto** mode the recording is halted and all the data recorded up to this point are lost.

➠ The recording time in the **Auto** mode may be up to 19 minutes.

➠ The **Auto** mode is not available for edited titles on DVD-RW in the VR recording mode.

Dubbing

Overwrite recordings

+RW
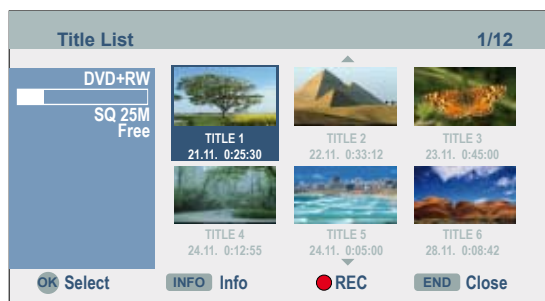Proceed as follows to overwrite a recorded title with a new video recording:

➠ This function is not possible for DVD+R because the recordings are always made at the end of the disc here.

Switch the recorder input to the signal source you wish to record from with the number buttons, the **P+** / **P-** buttons or the **0 AV** button.

MENU Select Title List menu.

Title List		1/12
DVD+RW		
SQ 25M		
Free		
TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
TITLE 4 24.11. 0:12:55	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
OK Select	INFO Info	● REC END Close

▲ ▼ ◀ ▶   Select title to be overwritten.

Start overwriting.

● The overwriting begins at the start point of the selected title.

■ End recording. The new title is created and the updated menu is displayed.

➠ This function is not possible for protected titles (page 53).

➠ If the overwriting title is longer than the recorded title, the following title is overwritten . However, if the following title is protected, the recording stops a the start point of this title.

➠ If the length of the selected title is shorter than 10 seconds, the following title is overwritten. However, if this title is protected, recording stops.

Title List menus on other devices

+RW +R
The **Title List** menu can be displayed on DVD players on which DVD+RW or DVD+R discs can be played.

Insert a written DVD+R or DVD+RW disc.

Select the Title menu (see user guide of the respective unit).

DVD+RW		
TITLE 1 21.11. 0:25:30	TITLE 2 22.11. 0:33:12	TITLE 3 23.11. 0:45:00
TITLE 4 24.11. 0:12:55	TITLE 5 24.11. 0:05:00	TITLE 6 28.11. 0:08:42
<<	1/1	>>

Playing on other devices

Finalised discs, finalised DVD+R or DVD+RW discs recorded in video mode can be played on most DVD players. Some players can play fialised/unfinalised DVD-RW discs recorded in VR mode. Look in the player user guide to find out which disc formats it supports. In the finalisation the recordings are "fixed" so that the disc can be played on normal DVD players or computers with a DVD-ROM drive.
In the finalisation of a disc in video mode, a menu is created for controlling the disc. Access is obtained with the **MENU** or **TITLE** buttons. For finalisation of a disc, please read "Finalisation" on page 26.

➠ Unfinalised DVD+RW discs can be played on normal DVD players.

➠ Edited contents of a DVD+RW disc can only be played on normal DVD players after finalisation.

➠ Edited contents of a DVD+R disc (hidden files, combined chapters, added chapter markers etc.) cannot be played on normal DVD players.

Troubleshooting

Problem	Possible cause	Remedy
No function.	The mains cable is not plugged in.	Fix the mains cable firmly into a socket.
No image.	The television is not switched to receive signals from the Recorder.	Select the right video input mode on the television, so that the image from the Recorder appears on the television screen.
	The SCART cable is not properly connected.	Connect the SCART cable properly.
	The television that is connected is switched off.	Switch the television on.
No sound.	The connected audio equipment is not switched to DVD playback.	Set the audio receiver so that you can hear the sound playing on your Recorder.
	The audio cables are not properly connected.	Connect the audio cable properly.
	The connected audio equipment is switched off.	Switch on the audio equipment that is connected.
	The audio connection cable is faulty.	Change it.
Inferior picture quality.	The disc is dirty.	Clean the disc.
Playback not possible.	There is no disc.	Insert a disc. (Check that the disc display comes on in the display window.)
	A non-playable disc has been inserted.	Insert a playable disc. (Check the disc type, the colour system and the region code.)
	The disc has not been inserted with the playable side downwards.	Insert the disc with the playable side downwards.
	The disc has not been properly placed in the guide.	Position the disc properly into the guide in the disc drawer.
	The disc is dirty.	Clean the disc.
	A security rating has been set.	Cancel the security rating or change the protection.
There is interference with images from an external source.	The video signal from the external component is copy-protected.	You cannot get a connection from this recorder. Connect the component directly into the television.
A channel is skipped when using **P+ / P-** .	The channels have not been saved in the recorder.	Retune the channels. See channel tuning on page 18.
The image or sound on the transmission channel is weak or absent.	Loose antenna or cable.	Tighten the connections or change the cable.
The camcorder image is not displaying.	The camcorder is switched off.	Switch on the camcorder and make sure your are using it properly.
The camcorder image is not appearing on the television screen when using the A/V input or DV IN to the Recorder.	The Recorder AV selection is wrong.	Select the input channel (AV1, AV2, DV etc.) with DVD-AV.
A disc that was recorded to from this Recorder cannot be played on a different DVD player.	The disc was recorded in video mode.	Finalising the disc (page 26).

Troubleshooting

Problem	Possible cause	Remedy
A disc that was recorded to from this Recorder cannot be played on a different DVD player.	Some players do not play discs with finalisation in video mode.	No solution.
	The disc was recorded in VR mode.	The other player must be RW-compatible.
	The ability of CD-R / RWs (MP3/WMA, JPEG, (X)VCD, (X)SVCD) and DVD+R / RWs and DVD-R / RWs is influenced by the recording equipment, recording methods and data media. Therefore, there may be problems occasionally when playing on conventional DVD players.	No solution.
Playback not possible or unsuccessful.	There is insufficient space on the disc.	Use a different disc.
	The source that you want to record is copy-protected.	You cannot record the source.
	Copy-protected broadcasts cannot be recorded on a video mode disc.	Use a disc formatted in the VR mode for once copiable material.
Timer recording not possible.	The time has not been set correctly on the recorder.	Set the correct time. See "Setting the time automatically" or "Setting the time manually" on page 20.
	The timer was wrongly programmed.	Re-program the timer. See "Timer recording" on page 43.
	The time between programming the timer and the start of recording is too short.	The recording's start time must be at least 3 minutes into the future.
	After programming, the timer recording LED is no longer displayed.	Re-program the timer.
Stereo-audio recording and/or playback unavailable.	The television is not stereo-compatible or the broadcast transmission is not in stereo format.	No solution.
	The Recorder's A/V Out sockets are not connected to the TV's A/V In sockets.	Make the A/V connections.
	The Recorder's audio/video Out has not been selected for the television.	Select the AUX or A/V source as the TV input.
	The DVD recorder's TV audio channel must be set to Mono.	Set the TV's audio channel to stereo.
The remote control is not working properly.	The remote control's batteries have run out.	Replace the old batteries with new ones.
Interference is visible at the top and bottom edges of the screen.	Unfavourable resolution setting in HDMI mode.	Set the resolution to 1080i with the **RES** button (page 29).

Technical Specifications

General

ViewVision DR+	Item No. 66502
ViewVision DR+ Secam	Item No. 66532
Power supply	AC 110-240V, 50/60 Hz
Power consumption	During operation: 35 W
	In standby mode: <1 W
	(with energy save function)
Dimensions (approx.)	430 x 75 x 345 mm (W x H x D)
Weight (approx.)	4,1 kg
Operating temperature	5 °C to 35 °C
Humidity	5 % to 90 %
TV system	ViewVision DR+ PAL B/G, I, Secam DK
	ViewVision DR+ PAL B/G, Secam L
Recording format	PAL

Recording

Recording format	DVD Video-Recording, DVD-VIDEO
Rewritable memory media	Hard disk (HDD) 160 GB,
	DVD-RW, DVD-R,
	DVD+RW, DVD+R

Video recording format

Sampling frequency	27MHz
Compression format	MPEG 2

Audio recording format

Sampling frequency	48kHz
Compression format	Dolby Digital

Playback

Frequency response	DVD (PCM 48 kHz): 8 Hz to 22kHz,
	CD: 8 Hz to 20 kHz
	DVD (PCM 96 kHz): 8 Hz to 44 kHz
Signal-to-noise ratio	> 100 dB (AUDIO OUT connection)
Harmonic distortion	< 0,008% (AUDIO OUT connection)
Dynamic range	> 95 dB (AUDIO OUT connection)

Inputs

AERIAL IN	Aerial input, 75 ohms
VIDEO IN	1.0 Vp-p 75 ohms, negative sync. ,
	RCA socket x 2 / SCART x 2
S-VIDEO IN	(Y) 1,0 V (p-p), 75 Ohm , negative Sync.,
	Mini DIN 4-pin x 1
	(C) 0,3 V (p-p) 75 Ohm
AUDIO IN	0 dBm > 47 kOhm, RCA socket
	(L, R) x 2 / SCART x 2
DV IN	4 Pins (i.LINK/IEEE 1394-Standard/DV-25)
Cardreader	7 in 2: SD, MMC, Memorystick (Pro), CF, MD, xD

Outputs

HDMI OUT	Type A, 19 Pin, LVDS digital, V1.2a
VIDEO OUT	1.0 Vp-p 75 ohms, negative Sync.,
	RCA socket x 1/ SCART
S-VIDEO OUT	(Y) 1,0 V (p-p), 75 ohms , negative Sync.,
	(C) 0,3 V (p-p) 75 ohms, Mini DIN 4-pin x 1
COMPONENT VIDEO OUT	(Y) 1,0 V (p-p), 75 ohms, negative Sync.,
	RCA socket x 1 (Pb)/(Pr) 0,7 V (p-p),
	75 ohms,
	RCA socket x 3
Audio output (digital audio)	0,5 V (p-p), 75 ohms, RCA socket x 1
Audio output (optical audio)	Optical connector x 1 (TOS-Link)
Audio output (analogue audio)	2,0 Vrms (1 kHz, 0 dB), 600 ohms,
	RCA socket (L, R) x 1 / SCART

Masthead

Operating additional devices

Setting the remote control

The different Loewe sets can be set as follows on the Assist remote control:

Device	Button combination	
Loewe TV (Q2500 − L2650)	TV + 7 pqrs	✳
Loewe TV (Q2300 − Q2400)	TV + 8 tuv	
Loewe Centros 11x2	REC + 1	
Loewe Viewvision, Centros 21x2	REC + 2 abc	
Loewe ViewVision DR+ (DVB-T)	REC + 3 def	✳
Loewe ViewVision 8106 H	REC + 0 AV	
Loewe Auro 2216 PS/8116 DT	DVD + 4 ghi	✳
Loewe Xemix 6222 PS	DVD + 5 jkl	

✳ Factory setting

The specified key combination must be pressed (approx. 5 s) until one of the LEDs flashes twice.

Operating Loewe equipment

Using the remote control for a DVD player

DVD   Press the **DVD** button, the indicator above it lights for about 5 seconds.

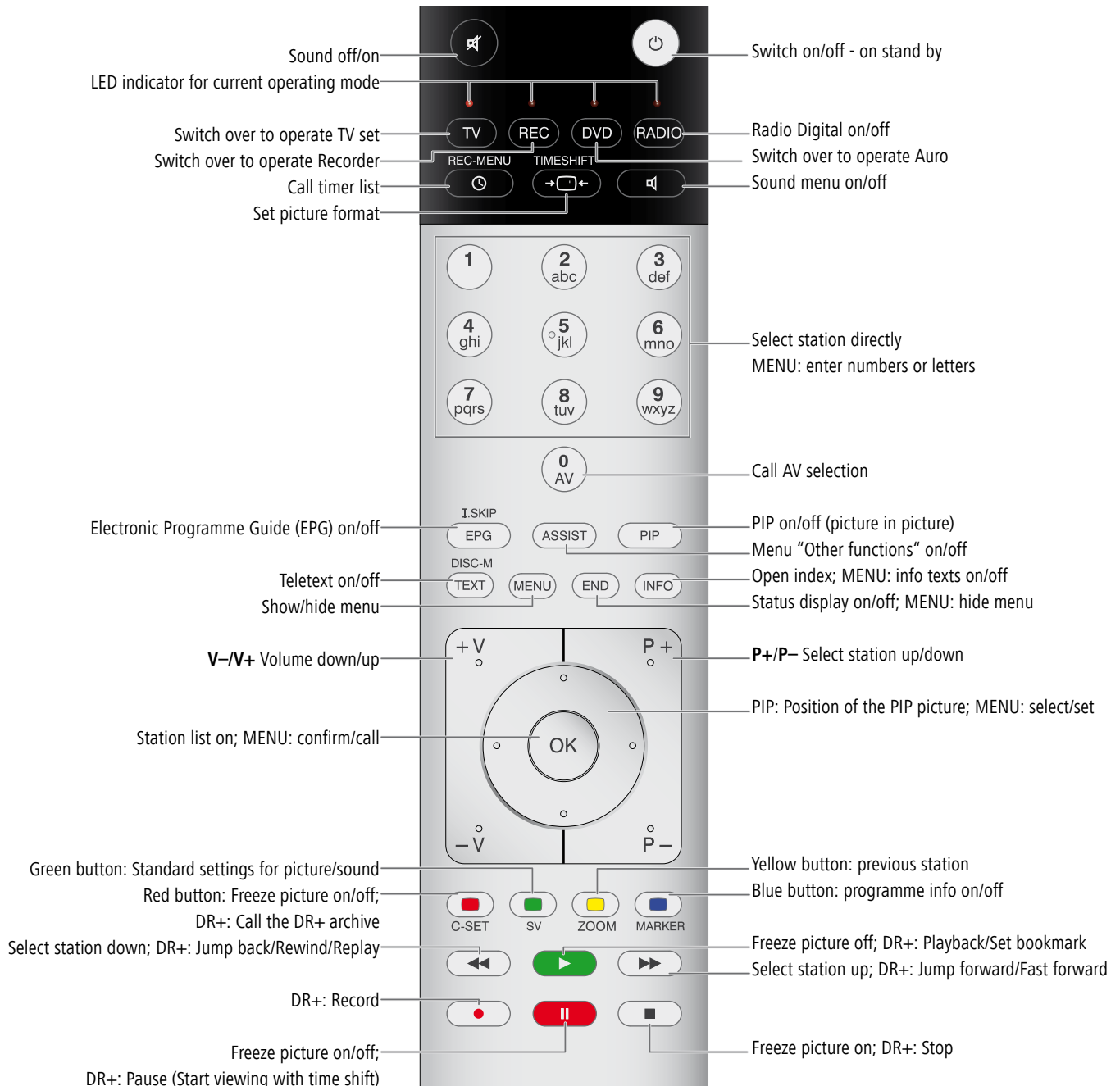**Using the remote control for a recorder**

REC   Press the **REC** button, the indicator above it lights for about 5 seconds.

Using the remote control for a TV set

TV   Press the **TV** button, the indicator above it lights for about 5 seconds.

Every time you press the button, the indicator of the selected operating mode (TV − REC − DVD − RADIO) lights up.

Remote control Assist – TV-operation

Sound off/on

LED indicator for current operating mode

Switch over to operate TV set

Switch over to operate Recorder

Call timer list

Set picture format

Switch on/off - on stand by

Radio Digital on/off

Switch over to operate Auro

Sound menu on/off

REC-MENU

TIMESHIFT

1

2 abc

3 def

4 ghi

5 jkl

6 mno

Select station directly

MENU: enter numbers or letters

7 pqrs

8 tuv

9 wxyz

0 AV

Call AV selection

I.SKIP

EPG

ASSIST

PIP

Electronic Programme Guide (EPG) on/off

PIP on/off (picture in picture)

Menu "Other functions" on/off

DISC-M

TEXT

MENU

END

INFO

Teletext on/off

Open index; MENU: info texts on/off

Show/hide menu

Status display on/off; MENU: hide menu

V–/V+ Volume down/up

+ V

P +

P+/P– Select station up/down

Station list on; MENU: confirm/call

OK

PIP: Position of the PIP picture; MENU: select/set

– V

P –

Green button: Standard settings for picture/sound

Yellow button: previous station

Red button: Freeze picture on/off;

Blue button: programme info on/off

DR+: Call the DR+ archive

C-SET

SV

ZOOM

MARKER

Select station down; DR+: Jump back/Rewind/Replay

Freeze picture off; DR+: Playback/Set bookmark

Select station up; DR+: Jump forward/Fast forward

DR+: Record

Freeze picture on/off;

Freeze picture on; DR+: Stop

DR+: Pause (Start viewing with time shift)

Language Code List

Enter the appropriate code when fi rst setting up "Disc Audio", "Disc Subtitles" and/or "Disc Menu". (Further information can be found under "Disc Languages" on page 21.)

Code	Language	Code	Language	Code	Language
6565	Afar	7387	Hebrew	8379	Somali
6566	Abkhaz	7465	Japanese	8381	Albanian
6570	Afrikaans	7473	Yiddish	8382	Serbian
6577	Amharic	7487	Javanese	8385	Sudanese
6582	Arabic	7565	Georgian	8386	Swedish
6583	Assamese	7575	Kazakh	8387	Swahili
6588	Aymara	7576	Greenlandic	8465	Tamil
6590	Azerbaijani	7577	Cambodian	8469	Telugu
6665	Bashkir	7578	Canadian	8471	Tadzhik
6669	Byelorussian	7579	Korean	8472	Thai
6671	Bulgarian	7583	Kashmiri	8473	Tigrinya
6672	Bihari	7585	Kurdish	8475	Turkmen
6678	Bengali; Bangla	7589	Kirgiz	8476	Tagalog
6679	Tibetan	7665	Latin	8479	Tongan
6682	Breton	7678	Lingala	8482	Turkish
6765	Catalan	7679	Laotian	8484	Tatar
6779	Corsican	7684	Lituanian	8487	Twi
6783	Czech	7686	Latvian	8575	Ukranian
6789	Welsh	7771	Malagasy	8582	Urdu
6865	Danish	7773	Maori	8590	Uzbek
6869	German	7775	Macedonian	8673	Vietnamese
6890	Bhutanese	7776	Malayalam	8679	Volapuk
6976	Greek	7778	Mongolian	8779	Wolof
6978	English	7779	Moldovian	8872	Xhosa
6979	Esperanto	7782	Marathi	8979	Yoruba
6983	Spanish	7783	Malay	9072	Chinese
6984	Estonian	7784	Maltese	9085	Zulu
6985	Basque	7789	Burmese		
7065	Persian	7865	Nauruan		
7073	Finnish	7869	Nepalese		
7074	Fijian	7876	Dutch		
7079	Faroese	7879	Norwegian		
7082	French	7982	Oriya		
7089	Frisian	8065	Punjabi		
7165	Irish	8076	Polish		
7168	Scottish	8083	Pashto		
	Gaelic	8084	Portuguese		
7176	Galician	8185	Quechua		
7178	Guarani	8277	Romansh		
7185	Gujarati	8279	Romanian		
7265	Hausa	8285	Russian		
7273	Hindi	8365	Sanskrit		
7282	Croatian	8368	Sindhi		
7285	Hungarian	8372	Serbocroat		
7289	Armenian	8373	Singhalese		
7365	Interlingua	8375	Slovak		
7378	Indonesian	8376	Slovene		
7383	Icelandic	8377	Samoan		
7384	Italian	8378	Shona		

List of country codes

Key in the corresponding code when first setting the "Area code" (page 24).

Code	Country code	Code	Country code	Code	Country code	Code	Country code
AD	Andorra	CV	Cape Verde	HU	Hungary	MS	Montserrat
AE	United Arab Emirates	CX	Christmas Islands	ID	Indonesia	MT	Malta
AF	Afghanistan	CY	Cyprus	IE	Ireland	MU	Mauritius
AG	Antigua and Barbuda	CZ	Czech Republic	IL	Israel	MV	Maldives
AI	Anguilla	DE	Germany	IN	India	MW	Malawi
AL	Albania	DJ	Djibouti	IO	British Territory	MX	Mexico
AM	Armenia	DK	Denmark		in the Indian Ocean	MY	Malaysia
AN	Dutch Antilles	DM	Dominica	IQ	Iraq	MZ	Mozambique
AO	Angola	DO	Dominican Republic	IR	Iran	NA	Namibia
AQ	Antarctic	DZ	Algeria	IS	Iceland	NC	New Caledonia (French)
AR	Argentina	EC	Ecuador	IT	Italy	NE	Niger
AS	American Samoa	EE	Estonia	JM	Jamaica	NF	Norfolk Island
AT	Austria	EG	Egypt	JO	Jordan	NG	Nigeria
AU	Australia	EH	West Sahara	JP	Japan	NI	Nicaragua
AW	Aruba	ER	Eritrea	KE	Kenya	NL	Netherlands
AZ	Azerbaizhan	ES	Spain	KG	Kirghizia	NO	Norway
BA	Bosnia-Herzegovina	ET	Ethiopia	KH	Cambodia	NP	Nepal
BB	Barbados	FI	Finland	KI	Kiribati	NR	Nauru
BD	Bangladesh	FJ	Fiji	KM	Comoros	NU	Niue
BE	Belgium	FK	Falkland Islands	KN	Saint Kitts and Nevis Anguilla	NZ	New Zealand
BF	Burkina Faso	FM	Micronesia	KP	North Korea	OM	Oman
BG	Bulgaria	FO	Faroe Islands	KR	South Korea	PA	Panama
BH	Bahrain	FR	France	KW	Kuwait	PE	Peru
BI	Burundi	FX	France (European	KY	Cayman Islands	PF	Polynesia (French)
BJ	Benin		Territory)	KZ	Kazakhstan	PG	Papua New Guinea
BM	Bermuda	GA	Gabon	LA	Laos	PH	Philippines
BN	Brunei Darussalam	GB	Great Britain	LB	Lebanon	PK	Pakistan
BO	Bolivia	GD	Grenada	LC	Saint Lucia	PL	Poland
BR	Brazil	GE	Georgia	LI	Liechtenstein	PM	Saint Pierre and Miquelon
BS	Bahamas	GF	French Guyana	LK	Sri Lanka	PN	Pitcairn Island
BT	Bhutan	GH	Ghana	LR	Liberia	PR	Puerto Rico
BV	Bouvet Island	GI	Gibraltar	LS	Lesotho	PT	Portugal
BW	Botswana	GL	Greenland	LT	Lithuania	PW	Palau
BY	Byelorussia	GM	Gambia	LU	Luxembourg	PY	Paraguay
BZ	Belize	GN	Guinea	LV	Latvia	QA	Qatar
CA	Canada	GP	Guadeloupe (French)	LY	Libya	RE	Reunion (French)
CC	Cocos (Keeling) Islands	GQ	Equatorial Guinea	MA	Morocco	RO	Rumania
CF	Central African Republic	GR	Greece	MC	Monaco	RU	Russian Federation
CG	Congo	GS	S. Georgia & S. Sandwich Islands	MD	Moldova	RW	Rwanda
CH	Switzerland	GT	Guatemala	MG	Madagascar	SA	Saudi Arabia
CI	Ivory Coast	GU	Guam (USA)	MH	Marshall Islands		
CK	Cook Islands	GW	Guinea Bissau	MK	Macedonia		
CL	Chile	GY	Guyana	ML	Mali		
CM	Cameroon	HK	Hong Kong	MM	Myanmar		
CN	China	HM	Heard and McDonald	MN	Mongolia		
CO	Columbia		Islands	MO	Macao		
CR	Costa Rica	HN	Honduras	MP	Northern Mariana Islands		
CS	Former Czechoslovakia	HR	Croatia	MQ	Martinique (French)		
CU	Cuba	HT	Haiti	MR	Mauretania		

Glossary

A

AV socket: Audio and video signal.
AV sources: Audio/video source.
AVS: Audio/video front sockets on the TV set (cinch and Mini-DIN).

C

Cinch cable: Cable for transmitting sound or picture.
Component Signal: The Component video signal consists of the "Y" brightness signal and the colour difference signals red and blue "U" and "V". Therefore it is sometimes called YUV signal. If the signal is transmitted in progressive scan, the signals are called YcrCb. For transmission in half screen mode (line jump method or interlace), the signals are called YPrPb.

D

Digital Link: System for controlling recorders (for Loewe video recorders and DVD recorders) via the Euro AV sockets of the Loewe TV set when installed in a concealed place. Control of the recorder for timer recordings.
Digital Link Plus: System for controlling recorders according to protocol 50. Station and timer data are transmitted to the recorder via the Euro AV socket for analog stations. The time recording is made exclusively by the recorder. Different names at different manufacturers.
DTS: Digital multi-channel sound.
Dolby Digital: Digital multi-channel sound.
Dolby Pro Logic: Analog multi-channel sound.
Dolby Surround: is an analog multi-channel sound system which accommodates four audio channels in two sound tracks using a matrix coding.
Dolby Virtual: Dolby Pro Logic audio signals are played over two speakers as a virtual surround signal.
DVD: abbreviation for Digital Video Disc and later Digital Versatile Disc.
DVD-Preceiver: combi-device of DVD player and radio.
DVI: Digital Visual Interface is an interface for transmitting digital video and graphic data (without sound).

E

Euro AV socket: Interface for connecting video recorders to a TV set. This socket is also known as a Scart socket.

H

HDCP: Copy protection standard.
HDMI: High Definition Multimedia Interface is a newly developed interface for full digital transmission of audio and video data.

L

LCD: Liquid Crystal Display.
L-Link: Interface for detection and control of Loewe audio components.

M

MPEG: Digital compression method for video.
Modulator: Transmitter in the recorder to receive signals via the TV tuner.
Mono: single channel sound.

N

NICAM: Sound standard NICAM is used in Belgium, Denmark, England, France, Sweden and Spain.
NTSC: American color standard.

P

PAL: European colour standard.
PCM: Puls Code Modulation for digital sound.
PIP: Picture in Picture, a function which shows two pictures on one screen.
Progressive Scan: Progressive Scan (PS for short) is a technique in the picture build-up of monitors, TV sets, beamers and other display devices in which the output device is not sent line interlaced half pictures – unlike in the interlace technique – but real full pictures.
Picture In Picture: see PIP.

R

RGB: colour signals red, green, blue.

S

Switching voltage: Video devices transmit this voltage to switch the TV to play.
SECAM: French colour standard.
SetTop-Box: Set-Top-Box refers to a device in entertainment electronics which is connected to another device, usually a TV set and offers the user additional useful features.
Signal strength: strength of the reception signal.
Signal quality: quality of the incoming signal.
Stereo: dual channel sound.

T

Terrestrial: In data transmission, a radio transmission which does not use a satellite as an intermediate station is called terrestrial.
Tuner: receiver

V

VPS: The Video Program System (VPS) is a signal which some (but not all) stations transmit in the scanning gap of the TV signal. The signal serves for video or DVD recorders to react to differences in the starting time, postponements and overrunning of the planned transmission time when recording programs.

Y

Ycc/Ypp: colour standard in Set-Top-Boxes.

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